Doc No. 37

USEPA SF 1363985

### ITEM: 5YK70 - Degreaser 20 Oz

PICK REQ: 1054597818

### MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

| ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT GIVE OXYGEN. CALL A

ociated Grainger Item: 5YK70 - Degreaser 20 Oz

CRC

MATERIAL SAFETY DATA SHEET

- SECTION 1: PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: CHLOR-FREE (R\*) NON-CHLORINATED DEGREASER (AFROSOL)

PRODUCT NUMBER (S): 03185, 83185

MANUFACTURED BY: CRC INDUSTRIES, INC. 885 LOUIS DRIVE WARMINSTER, PA 18974

WWW.CRCINDUSTRIES.COM

GENERAL INFORMATION: (215) 674-4300 TECHNICAL ASSISTANCE: (800) 521-3168

CUSTOMER SERVICE: (800) 272-4620

24-HR EMERGENCY (CHEMTREC): (800) 424-9300

- SECTION 2: HAZARDS IDENTIFICATION -

EMERGENCY OVERVIEW: APPEARANCE & ODOR: CLEAR, WATER-WHITE LIQUID, MILD SOLVENT ODOR

EXTREMELY FLAMMABLE. HARMFUL OR FATAL IF SWALLOWED. CONTENTS UNDER PRESSURE.

S DEFINED BY OSHA'S HAZARD COMMUNICATION STANDARD, THIS PRODUCT IS AS DEFINED HAZARDOUS.

POTENTIAL HEALTH EFFECTS:

 $\ensuremath{\mathtt{EYE}}$  : MAY CAUSE MILD EYE IRRITATION. SYMPTOMS INCLUDE STINGING, TEARING AND

AUSE SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY THE SKIN. IOMS INCLUDE REINESS, BURNING, AND DRYING AND CRACKING OF SKIN, BURNS IN OTHER SKIN DAMAGE. PASSAGE OF THIS MATERIAL THROUGH THE SKIN IS SIBLE, BUT IT IS UNLIKELY TO RESULT IN HARMFUL EFFECTS DURING SAFE DLING AND USE.

ERRATHING SMALL AMOUNTS OF THIS MATERIAL DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS. BREATHING LARGE AMOUNTS MAY BE HARMFUL SYMPTOMS USUALLY INCLIDE NOSE AND THROAT IRRITATION AND CENTRAL NERVOUS SYSTEM DEPRESSION (DIZZINESS, DROWSINESS, WEAKNESS, NAUSEA, HEADACHE UNCONSCIOUSNESS)

INGESTION:
SWALLOWING SMALL AMOUNTS OF THIS MATERIAL DURING NORMAL HANDLING IS NOT
LIKELY TO CAUSE HARMFUL EFFECTS. SWALLOWING LARGE AMOUNTS MAY BE HARMFUL,
THIS MATERIAL CAN GET INTO THE LINGS DURING SWALLOWING OR VOMITING AND CAN
RESULT IN LUNG INFLAMMATION AND OTHER LUNG INJURY.

CHRONIC EFFECTS: NONE KNOWN

TARGET ORGANS: LIVER, KIDNEY

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: PRE-EXISTING SKIN CONDITIONS, LUNG CONDITIONS

SEE SECTION 11 FOR TOXICOLOGY AND CARCINGGENICITY INFORMATION ON PRODUCT

SECTION 3: 0	COMPOSITION/INFORMATION ON I	NGREDIENTS -
COMPONENT	CAS NUMBER	% BY WT.
CYCLOHEXANE	110-82-7	70 - 80
ETHANOL	64-17-5	8 - 13
HEXANE ISOMERS	VARIOUS	5 - 10
METHANOL	67-56-1	<4
n-HEXANE	110-54-3	<1
CARBON DIOXIDE	124-38-9	2 - 6

- SECTION 4: FIRST AID MEASURES -

LATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES. CALL A PHYSICIAN IF ATION PERSISTS.

S CONTACT:

RL .2 CONTAMINATED CLOTHING AND WASH AFFECTED AREA WITH SOAP AND WATER.

CALL A PHYSICIAN IF IRRITATION PERSISTS. WASH CONTAMINATED CLOTHING PRIOR TO RE-USE.

INHALATION:

REMOVE PERSON TO FRESH AIR. KEEP PERSON CALM. IF NOT BREATHING, GIVE

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MSDS: B0895

INVESTIGN: SEEK MEDICAL ATTENTION. IF INDIVIDUAL IS DROWSY OR UNCONSCIOUS, DO NOT GIVE ANTHING BY MOUTH; PLACE INDIVIDUAL ON THE LEFT SIDE WITH THE HEAD DOWN

THIS MATERIAL IS AN ASPIRATION HAZARD. POTENTIAL DANGER FROM ASPIRATION MUST BE WEIGHED AGAINST POSSIBLE ORAL TOXICITY WHEN DECIDING WHEIHER TO INDUCE VOMITING

- SECTION 5: FIRE-FIGHTING MEASURES -

FLAMMABLE PROPERTIES:

THIS PRODUCT IS EXTREMELY FLAMMABLE IN ACCORDANCE WITH AEROSOL FLAMMABILITY DEFINITIONS (16 CFR 1500.3(C)(6)).

FLASH POINT: <0 F (TCC)

AUTOIGNITION TEMPERATURE: 500 F

UPPER EXPLOSIVE LIMIT: 8.3 LOWER EXPLOSIVE LIMIT: 1.3

SUITABLE EXTINGUISHING MEDIA: CLASS B FIRE EXTINGUISHERS, CARBON DIOXIDE, DRY CHEMICAL, REGULAR FOAM

PRODUCTS OF COMBUSTION: OXIDES OF CARBON, VARIOUS HYDROCARBONS

PROTECTION OF FIRE-FIGHTERS:
FIREFIGHTERS SHOULD WEAR SELF-CONTAINED, NIOSH-APPROVED BREATHING APPARATUS
FOR PROTECTION AGAINST SUFFOCATION AND POSSIBLE TOXIC DECOMPOSITION
PRODUCTS. PROPER EYE AND SKIN PROTECTION SHOULD BE PROVIDED. USE WATER
SPRAY TO KEEP FIRE-EXPOSED CONTAINERS COOL AND TO KNOCK DOWN VAPORS WHICH MAY RESULT FROM PRODUCT DECOMPOSITION.

- SECTION 6: ACCIDENTAL RELEASE MEASURES -

PERSONAL PRECAUTIONS: USE PERSONAL PROTECTION RECOMMENDED IN SECTION 8.

ENVIRONMENTAL PRECAUTIONS:

TAKE PRECAUTIONS TO PREVENT CONTAMINATION OF GROUND AND SURFACE WATERS. DO NOT FLUSH INTO SEWERS OR STORM DRAINS.

METHODS FOR CONTAINMENT & CLEAN-UP:
REMOVE SOURCES OF IGNITION. DIKE AREA TO CONTAIN SPILL, VENTILATE THE AREA
WITH FRESH AIR. IF IN CONFINED SPACE OR LIMITED AIR CIRCULATION AREA,
CLEAN-UP WORKERS SHOULD WEAR APPROPRIATE RESPIRATORY PROTECTION. RECOVER OR
ABSORB SPILLED MATERIAL USING AN ABSORBENT DESIGNED FOR CHEMICAL SPILLS.
PLACE USED ABSORBENTS INTO PROPER WASTE CONTAINERS.

- SECTION 7: HANDLING AND STORAGE -

HANDLING PROCEDURES:

DO NOT USE NEAR SOURCES OF IGNITION INCLUDING STATIC IGNITION HAZARDS. USE WITH PROPER VENTILATION. WASH HANDS AFTER USE AND BEFORE CONTACTING FOOD.

STORAGE PROCEDURES:

STORE IN A COOL DRY AREA OUT OF DIRECT SUNLICHT. AEROSOL CANS MUST BE MAINTAINED BELOW 120 F TO PREVENT CANS FROM RUPTURING.

AEROSOL STORAGE LEVEL: III

- SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION -

EXPOSURE GUIDELINES:

	COMPONENT		4	OSHA		A.	اللتك		OI	HER	UNTI
			TWA	STEL	T	AIM	S	TEL	TWA	SOURCE	
	CYCLOHEXANE		300	NE	2	100		NE	NE		PPM
	ETHANOL	1000	NE		1000	NE		NE		PPM	
į	HEXANE ISOMERS		500	1000	(V)	500		1000	NE		PPM
	METHANOL	200	NE		200 (S)	250	(S)	NE		PPM	
	n-HEXANE	500	NE		50 (S)	NE		NE		PPM	
	CARBON DIOXIDE		5000	30000	(V)	5000		30,000	NE		PPM

N.E. - NOT ESTABLISHED (C) - CEILING (S) - SKIN (V) - VACATED

ENGINEERING CONTROLS:
AREA SHOULD HAVE VENTILATION TO PROVIDE FRESH AIR. LOCAL EXHAUST
VENTILATION IS GENERALLY PREFERRED BECAUSE IT CAN CONTROL THE ENISSIONS OF
THE CONTROL AT THE SOURCE, PREVENTING DISPERSION INTO THE GENERAL WORK
AREA, USE MECHANICAL MEANS IF NECESSARY TO MAINTAIN VAPOR LEVELS BELOW THE
EXPOSURE GUIDELINES. IF WORKING IN A CONFINED SPACE, FOLLOW APPLICABLE CSHA

RESPIRATORY PROTECTION: RESPIRATION: PROTECTION:
NONE REQUIRED FOR NORMAL WORK WHERE ADEQUATE VENTILATION IS PROVIDED. IF
ENGINEERING CONTROLS ARE NOT FEASIBLE OR IF EXPOSURE EXCEEDS THE APPLICABLE
EXPOSURE LIMITS, USE A NICEH-APPROVED CARTRIDGE RESPIRATOR WITH ORGANIC
VAPOR CARTRIDGE. USE A SELF-CONTAINED BREATHING APPARATUS IN CONFINED
SPACES AND FOR EMERGENCIES.

EYE/FACE PROTECTION:

FOR NORMAL CONDITIONS, WEAR SAFETY GLASSES. WHERE THERE IS REASONABLE PROBABILITY OF LIQUID CONTACT, WEAR SPLASH-PROOF GOGGLES.

SKIN PROTECTION: USE PROTECTIVE GLOVES SUCH AS NATURAL RUBBER. ALSO, USE FULL PROTECTIVE CLOTHING IF THERE IS PROLONGED OR REPEATED CONTACT OF LIQUID WITH SKIN.

- SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID

: CLEAR, WATER-WHITE

: MILD SOLVENT

SPECIFIC GRAVITY: 0.767

INITIAL BOILING POINT: 179 F

FREEZING POINT: ND

VAPOR PRESSURE: ND

VAPOR DENSITY: >1 (AIR = 1)

EVAPORATION RATE: >1 (BUTYL ACETATE = 1)

SOLUBILITY: NEGLIGIBLE IN WATER

pH: NA

VOLATILE ORGANIC COMPOUNDS: WT %: 96 G/L: 736.3 LBS./GAL: 6.13

- SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID: TEMPERATURE EXTREMES, SOURCES OF IGNITION

INCOMPATIBLE MATERIALS: STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON, VARIOUS HYDROCARBONS

POSSIBILITY OF HAZARDOUS REACTIONS: NO

- SECTION 11: TOXICOLOGICAL INFORMATION

LONG-TERM TOXICOLOGICAL STUDIES HAVE NOT BEEN CONDUCTED FOR THIS PRODUCT. THE FOLLOWING INFORMATION IS AVAILABLE FOR COMPONENTS OF THIS PRODUCT.

ACUTE EFFECTS:

COMPONENT TEST RESULT ROUTE SPECTES CYCLOHEXANE LD50 12705 MG/KG RAT OHEXANE LD50 70 GM/M3/2H INHALATTON MOUSE CANE LD50 3000 MG/KG DERMAL, RABBIT

PONIC EFFECTS:

CINOGENICITY:

COMPONENT RESULT

OSHA NONE LISTED TARC NONE LISTED

NONE LISTED NTP

OTHER NONE:

- SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL STUDIES HAVE NOT BEEN CONDUCTED FOR THIS PRODUCT. THE FOLLOWING INFORMATION IS AVAILABLE FOR COMPONENTS OF THIS PRODUCT.

ECOTOXICITY: n-HEXANE:

48 HR EC50 WATER FLEA: 3.87 MG/L 96 HR LC50 LEPOMIS MACROCHIRUS: 4.12 MG/L

PERSISTENCE / DEGRADABILITY: NO INFORMATION AVAILABLE

BIOACCUMULATION / ACCUMULATION: NO INFORMATION AVAILABLE

MOBILITY IN ENVIRONMENT: NO INFORMATION AVAILABLE

- SECTION 13: DISPOSAL CONSIDERATIONS -

DISPOSAL THE DISPENSED LIQUID PRODUCT IS A HAZARDOUS WASTE FOR THE CHARACTERISTIC OF IGNITABILITY (DOO1). (SEE 40 CFR PART 261.20 - 261.33) AEROSOIS SHOULD BE FULLY DEPRESSURIZED AND EMPTIED. THE LIQUID SHOULD BE CAPTURED AND MANAGED AS A HAZARDOUS WASTE. THE EMPTY CONTAINER MAY BE

ALL DISPOSAL ACTIVITIES MUST COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS. LOCAL REGULATIONS MAY BE MORE STRINGENT THAN STATE OR NATIONAL REQUIREMENTS.

- SECTION 14: TRANSPORT INFORMATION

R SHIPPING DESCRIPTION: T (GROUND): CONSUMER COMMODITY, ORM-D AL PROVISIONS: NONE

- SECTION 15: REGULATORY INFORMATION -

TOXIC SUBSTANCES CONTROL ACT (TSCA): ALL INCREDIENTS ARE EITHER LISTED ON THE TSCA INVENTORY OR ARE EXEMPT.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT

REPORTABLE QUANTITIES (RQ'S) EXIST FOR THE FOLLOWING INGREDIENTS: CYCLOHEXANE (1000 LBS), METHANOL (5000 LBS)

--EEXANE (5000 LBS)

SPILLS OR RELEASES RESULTING IN THE LOSS OF ANY INGREDIENT AT OR ABOVE ITS RO REQUIRE IMMEDIATE NOTIFICATION TO THE NATIONAL RESPONSE CENTER (800-424-8802) AND TO YOUR LOCAL EMERGENCY PLANNING COMMITTEE.

SUPERFUND AMENDMENTS REAUTHORIZATION ACT (SARA) TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (EHS): NONE

SECTION 311/312 HAZARD CATEGORIES: FIRE HAZARD: YES REACTIVE HAZARD: NO RELEASE OF PRESSURE: YES ACUTE HEALTH HAZARD: YES CHRONIC HEALTH HAZARD: NO

SECTION 313 TOXIC CHEMICALS:
THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE 111 OF THE SUPERFUND AMENIMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFF PART 372:
CYCLOHEXANE (<75%), METHANOL (<4%), n-HEXANE (<1%)

CLEAN AIR ACT: SECTION 112 HAZARDOUS AIR POLLUTANTS (HAPS): METHANOL, n-HEXANE

STATE REGULATIONS:

CALIFORNIA SAFE DRINKING WATER AND TOXIC EMPORCEMENT ACT (PROP 65):
THIS PRODUCT MAY CONTAIN THE FOLLOWING CHEMICALS KNOWN TO THE STATE OF
CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: NOME

STATE RIGHT TO KNOW:
NEW JERSEY: 110-82-7, 64-17-5, 37-56-1, 110-54-3, 124-38-9
PENNSYLVANIA: 110-82-7, 64-17-5, 37-56-1, 110-54-3, 124-38-9
MASSACHUSETTS: 110-82-7, 64-17-5, 37-56-1, 110-54-3, 124-38-9
RHODE ISLAND: 110-82-7, 64-17-5, 37-56-1, 110-54-3, 124-38-9

ADDITIONAL REGULATORY INFORMATION: IN STATES WITH CONSUMER PRODUCT VOC REGULATIONS, THIS PRODUCT IS NOT FOR RETAIL SALE.

- SECUTION 16: OTHER INFORMATION -

NFPA: HEALTH FLAMMABILITY 3 REACTIVITY 0

HMIS: HEALTH 2 FLAMMABILITY 3 REACTIVITY 0

PREPARED BY: MICHELLE RUDNICK

CRC #: 463C

REVISION DATE: 04/02/2007

CHANGES SINCE LAST REVISION: FORMULA NUMBER REVISED.

THE INFORMATION CONTAINED IN THIS DOCUMENT APPLIES TO THIS SPECIFIC MATERIAL AS SUPPLIED. IT MAY NOT BE VALID FOR THIS MATERIAL IF IT IS USED IN COMBINATION WITH ANY OTHER MATERIALS. THIS INFORMATION IS ACCURATE TO THE BEST OF CRC INDUSTRIES' KNOWLEDGE OR OBTAINED FROM SOURCES BELIEVED BY CRC TO BE ACCURATE. BEFORE USING ANY PRODUCT, READ ALL WARNINGS AND DIRECTIONS ON THE LABEL

CAS: CHEMICAL ABSTRACT SERVICE
PPM: PARTS PER MILLION
TCC: TAG CLOSED CUP
PMCC: PERSKY-MARTENS CLOSED CUP
PPE: PERSONAL PROTECTION EQUIPMENT

PRE: PERSONAL PROTECTION BUDIFFIENT
TWA: TIME WEIGHTED AVERAGE
OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
NIOSH: NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY & HEALTH
NA: NOT APPLICABLE
ND: NOT DETERMINED
NE: NOT ESTABLISHED

G/L: GRAMS PER LITER LBS./GAL: POUNDS PER GALLON STEL: SHORT TERM EXPOSURE LIMIT

### order: 1054597818 ITEM: 5YK70 - Degreaser 20 Oz

HAZMAT: 5YK70

### HAZARD MATERIAL WARNING SHEET (HAZMAT)

When shipment is complete, retain for daily Hazmat audit

GRAINGER SHIPPING INFORMATION STOCK # : 5YK70

MSDS # : B0895 : 0811 FREIGHT CODE

DOT PROPER SHIP NAME : CONSUMER COMMODITY, ORM-D FLASHPOINT -18 DGS C, 0

DGS F

FLASHPOINT : -18 DEGREES CELSIUS, 0 DEGREES FAHRENHEIT

UPS RESTRICTIONS

HAZARDOUS CLASS NUMBER : ORM-D

UN ID #

PACKING GROUP

: Consumer Commodity ORM-D SHIPPING LABEL

LIMITED QUANTITY : YES

CARTON INSTRUCTIONS : CAN REPACK IN GRAINGER S CARTON

DOT/UPS EXEMPTION NO. :

COMMENTS : HAZARDOUS MATERIAL. DO NOT SHIP AIR!!

SHIPPING-PAPERS

LACARD OFFERED ? YES ( ) NO ( ) PLEASE MARK ONE

## ITEM: 6KP13 - Spray Paint Gloss Banner Red 12 Oz

PICK REQ: 1054314407 MSDS: A8809 **MATERIAL SAFETY DATA SHEET (MSDS)** sociated Grainger Item: 6KP13 - Spray Paint Gloss Banner Red 12 Oz STODDARD SOLVENTS 100 PPM 500 PPM 6KP19, 6KP21, 6KP22, 6KP25, 6KP27, 6KP28, 6KP29, 6YH15 ALIPHATIC HYDROCARBON 300 PPM N.E. 300 PPM N.E. MATERIAL SAFETY DATA SHEET PIGMENT VELLOW 73 2 MG/M3 N.E. 2 MG/M3 N.E. 24 HOUR ASSISTANCE: 1-847-367-7700 RUST-OLEUM CORP. PIGMENT BLACK 7 3.5 MG/M3 N.E. 3.5 MG/M3 N.E. 2 MG/M3 PIGMENT YELLOW 17 N.E. 5 MG/M3 N.E. WWW.RUSTOLEUM.COM 1,3,5-TRIMETHYLBENZENE 25 PPM N.E. N.E. N.E. - SECTION 1 - CHEMICAL PRODUCT / COMPANY INFORMATION -PIGMENT VIOLET 32 N.E. N.E. N.E. N.E. PRODUCT NAME: N INDUSTRIAL CHOICE AEROSOLS - SECTION 3 - HAZARDS IDENTIFICATION -IDENTIFICATION NUMBER: N1622830, N1624830, N1626830, N1633830, N1638830, N1643830, N1644830, N1653830, N1664830, N1666830, N1671830, N1674830, N1676830, N1679830, N1679830, N1684830, N1684830, N1688830, N1690830, N1692830, N1696830 EMERGENCY OVERVIEW: CONTENTS UNDER PRESSURE. VAPORS MAY CAUSE FLASH FIRE OR EXPLOSION. EXTREMELY FLAMMABLE LIQUID AND VAPOR. HARMFUL IF INHALED. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINGSS, HEADACHE OR NAUSEA. HARMFUL IF SWALLOWED. PRODUCT USE/CLASS: TOPCOATS/AEROSOL EFFECTS OF OVEREXPOSURE - EYE CONTACT: CAUSES EYE IRRITATION. SUPPLIER: RUST-OLEUM CORPORATION EFFECTS OF OVEREXPOSURE - SKIN CONTACT:
PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN IRRITATION. SUBSTANCE MAY 11 HAWTHORN PARKWAY VERNON HILLS, IL 60061 CAUSE SLIGHT SKIN IRRITATION. EFFECTS OF OVEREXPOSURE - INHALATION: HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES, NOSE, THROAT AND LUNGS. AVOID BREATHING VAPORS OR MISTS. HIGH GAS, VAPOR, MIST OR DUST CONCENTRATIONS MAY BE HARMFUL IF INHALED. HARMFUL IF INHALED. MANUFACTURER: RUST-OLEUM CORPORATION 11 HAWTHORN PARKWAY VERNON HILLS, IL 60061 EFFECTS OF OVEREXPOSURE - INGESTION: ASPIRATION HAZARD IF SWALLOWED; CAN ENTER LUNGS AND CAUSE DAMAGE. SUBSTANCE MAY BE HARMFUL IF SWALLOWED. PREPARER: REGULATORY DEPARTMENT EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:
LARC LISTS ETHYLEENZENE AS A POSSIBLE HUMAN CARCINOGEN (GROUP 2B). MAY CAUSE CENTRAL NERVOUS SYSTEM DISORDER (E.G., NARCOSIS INVOLVING A LOSS OF COORDINATION, WEAKNESS, FATIGGE, MENTAL CONFUSION, AND BLUTRED VISION) AND/OR DAMAGE. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENIS WITH PERMANENT ERAIN AND NERVOUS SYSTEM DAMAGE. OVEREXPOSURE TO XYLENE IN LABORATORY ANIMALS HAS BEEN ASSOCIATED WITH LIVER ABNORMALITIES, KIDNEY, LUNG, SPLEEN, EYE AND BLOOD DAMAGE AS WELL AS REPRODUCTIVE DISORDERS. EFFECTS IN HUMANS, DUE TO CHRONIC OVEREXPOSURE, HAVE INCLUDED LIVER, CARDIAC ABNORMALITIES AND NERVOUS SYSTEM DAMAGE. OVEREXPOSURE TO TOLUENE IN LABORATORY ANIMALS HAS BEEN ASSOCIATED WITH LIVER ABNORMALITIES, KIDNEY, LUNG AND SPLEEN DAMAGE. EFFECTS IN HUMANS HAVE INCLUDED LIVER AND CARDIAC ABNORMALITIES. REVISION DATE: 01/24/2006 SECTION 2 - COMPOSITION / INFORMATION ON INCREDIENTS -CHEMICAL NAME CAS NUMBER WEIGHT % LESS THAN 67-64-1 35.0 LIQUEFIED PETROLEUM GAS 68476-86-8 30.0 1330-20-7 20.0 108-88-3 20.0 CONTAINS CARBON BLACK. CHRONIC INFLAMMATION, LUNG FIBROSIS, AND LUNG TIMORS HAVE BEEN OBSERVED IN SOME RATS EXPERIMENTALLY EXPOSED FOR LONG PERIODS OF TIME TO EXCESSIVE CONCENTRATIONS OF CARBON BLACK AND SEVERAL INSOLUBLE FINE DUST PARTICLES. TUMORS HAVE NOT BEEN OBSERVED IN OTHER ANIMAL SPECIES (I.E., MOUSE AND HAMPSTER) UNDER SIMILAR CIRCUMSTANCES AND STUDY CONDITIONS. EPIDEMIOLOGICAL STUDIES OF NORTH AMERICAN WORKERS SHOW NO EVIDENCE OF CLINICALLY SIGNIFICANT ADVERSE HEALTH EFFECTS DUE TO OCCUPATIONAL EXPOSURE PHATIC PETROLEUM DISTILLATES 64742-89-8 20.0 TANIUM DIOXIDE 13463-67-7 15.0 NAPHTHA 8032-32-4 10.0 ETHYLBENZENE 100-41-4 10.0 TO CARBON BLACK. CARBON BLACK IS LISTED AS A GROUP 2B-"POSSIBLY CARCINGENIC TO HIMANS" BY IARC AND IS PROPOSED TO BE LISTED AS A4 - "NOT CLASSIFIED AS A HIMAN CARCINGEN" BY THE AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIBNISTS. SIGNIFICANT EXPOSURE IS NOT ANTICIPATED DURING BRUSH APPLICATION OR DRYING. RISK OF OVEREXPOSURE DEPENDS ON DURATION AND LEVEL OF EXPOSURE TO DUST FROM REPEATED SANDING OF SURFACES OR SPRAY MIST AND THE ACTUAL CONCENTRATION OF CARBON BLACK IN THE FORMULA. AROMATIC HYDROCARBON 64742-95-6 5.0 MAGNESIUM SILICATE 14807-96-6 5.0 1,2,4-TRIMETHYLBENZENE 95-63-6 5.0 AROMATIC SOLVENT 64742-95-6 5.0 STODDARD SOLVENTS PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT, SKIN ABSORPTION, INHALATION, EYE CONTACT 8052-41-3 5.0 ALIPHATIC HYDROCARBON 64742-89-8 PIGMENT YELLOW 73 13515-40-7 5.0 - SECTION 4 - FIRST AID MEASURES -PIGMENT BLACK 7 1333-86-4 5.0 FIRST AID - EYE CONTACT: HOLD EYELLOS APART AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. PIGMENT YELLOW 17 4531-49-1 5.0 GET MEDICAL ATTENTION. FIRST AID - SKIN CONTACT: WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS. 1,3,5-TRIMETHYLBENZENE 108-67-8 5.0 PIGMENT VIOLET 32 12225-08-0 0 7 G

							·	• -
CHEMICAL NAME	ACGI		ACG] TWA		OSHF -STEL	Y PEL-TWA	OSHA	PEL-CEILING
ACETONE	500 1	PPM	750	PPM	750	PPM	N.E.	
LIQUEFIED PETROLEUM	GAS	1000	PPM	N	E.	1000	PPM	N.E.
XYLENE	100 I	PPM	150	PPM	100	PPM	N.E.	
TOLUENE	50 PPM	1	150 PE	PM:	200 PP	м 30	0 PPM	
ALIPHATIC PETROLEUM DISTILLATES		40	0 PPM	N	.E.	400 ]	PPM	N.E.

DISTILLATES						
MIUM DIOXIDE			10 MG/M3	N.E.	10 MG/M3	N.E.
THA	300	PPM	N.E.	N.E.	N.E.	
LBENZENE			100 PPM	125 PPM	100 PPM	N.E
ATIC HYDROCARBON			N.E.	N.E.	N.E.	N.E.
AGNESIUM SILICATE			10 MG/M3	N.E.	15 MG/M3	N.E.
,2,4-TRIMETHYLBENZEN	Œ	25	PPM	N.E.	N.E.	N.E.

FIRST AID - INH	ALATION:			
IF YOU EXPERIENC				
AIR. IF CONTINU	ED DIFFICULTY I	S EXPERIENCED,	GET MEDICAL A	ASSISTANCE
IMMEDIATELY.				

FIRST AID - INGESTION:

ASPIRATION HAZARD:
DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN
ENTER THE LUNGS AND CAUSE SEVERE LUNG DAMAGE. GET IMMEDIATE MEDICAL

SECTION 5 - FIRE FIGHTING MEASURES -

FLASH POINT: -156 F (SETAFLASH)

LOWER EXPLOSIVE LIMIT: 0.7% UPPER EXPLOSIVE LIMIT: 12.8%

EXTINGUISHING MEDIA: DRY CHEMICAL, FOAM, WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS:
WATER SPRAY MAY BE INEFFECTIVE. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED
TO EXTREME HEAT. VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. FLASH POINT IS
LESS THAN 20 DEG. F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR!
PERFORATION OF THE PRESSURIZED CONTAINER MAY CAUSE BURSTING OF THE CAN.
ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME. VAPORS CAN

TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK. KEEP CONTAINERS TIGHTLY CLOSED SPECIAL FIREFICHTING PROCEDURES: EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE. - SECTION 6 - ACCIDENTAL RELEASE MEASURES TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
AIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS
AS SAMDUST. REMOVE ALL SOURCES OF IGNITION, VENTILATE AREA AND REMOVE
WITH INERT ABSORBMI AND NON-SPARKING TOOLS. DISPOSE OF ACCORDING TO LOCAL,
STATE (PROVINCIAL) AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS. - SECTION 7 - HANDLING AND STORAGE -MASH HANDS BEFORE EATING. WASH THOROUGHLY AFTER HANDLING. USE ONLY IN A WELL-VENTILATED AREA. AVOID BREATHING VAFOR OR MIST. FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED BECAUSE IT MAY RETAIN PRODUCT RESIDUES. STORAGE STORAGE:

DO NOT STORE ABOVE 120 DEG. F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED AND PROTECTED FOR STORAGE OF NFFA CLASS I FLAMMABLE LIQUIDS. KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME. CONTENTS UNDER PRESSURE. DO NOT EXPOSE TO HEAT OR STORE ABOVE 120 DEG. F. - SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION -ENGINEERING CONTROLS: ENGINEERING CUNIROLS:
USE PROCESS ENCIOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING
CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS. USE
EXPLOSION-PROOF VENTILATION EQUIPMENT. PREVENT BUILD-UP OF VAPORS BY OPENING
ALL DOORS AND WINDOWS TO ACHIEVE CROSS-VENTILATION. RESPIRATORY PROTECTION:
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND ANSI Z88.2
REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A
RESPIRATOR'S USE. A NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR WITH AN
ORGANIC VAPOR CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN
CIRCUMSTANCES WHERE AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE PROTECTION PROVIDED BY AIR PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR AN UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR ANY OTHER CIRCUMSTANCES WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE SKIN PROTECTION: NITRILE OR NEOPRENE GLOVES MAY AFFORD ADEQUATE SKIN PROTECTION. USE IMPERVIOUS GLOVES TO PREVENT SKIN CONTACT AND ABSORPTION OF THIS MATERIAL THROUGH THE SKIN. SAFETY EYEWEAR DESIGNED TO PROTECT AGAINST SPLASH OF LIQUIDS. TER PROTECTIVE EQUIPMENT:

ER TO SAFETY SUPERVISOR OR INDUSTRIAL HYGIENIST FOR FURTHER INFORMATION

JARDING PERSONAL PROTECTIVE EQUIPMENT AND ITS APPLICATION. HYGIENIC PRACTICES:
WASH THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING OR SMOKING. - SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES -BOILING RANGE: -34 - 900 F VAPOR DENSITY: HEAVIER THAN AIR ODOR: SOLVENT LIKE ODOR THRESHOLD: ND APPEARANCE: LIQUID EVAPORATION RATE: SLOWER THAN ETHER SOLUBILITY IN H2O: SLIGHT FREEZE POINT: ND

SPECIFIC GRAVITY:

VAPOR PRESSURE:

pH: NE

PHYSICAL STATE: LIQUID

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

- SECTION 10 - STABILITY AND REACTIVITY -

CONDITIONS TO AVOID:

AVOID TEMPERATURES ABOVE 120 DEG. F. AVOID ALL POSSIBLE SOURCES OF IGNITION.

INCOMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS AND STRONG ALKALIS.

HAZARDOUS DECOMPOSITION:

PEN FLAME, CARBON MONOXIDE AND CARBON DIOXIDE. WHEN HEATED TO POSITION, IT EMITS ACRID SMOKE AND IRRITATING FUMES.

RDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

ILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

- SECTION 11 - TOXICOLOGICAL INFORMATION

PRODUCT LC50: ND		
CHEMICAL NAME	LD50	LC50
ACETONE	N.D.	N.D.
LIQUEFIED PETROLEUM GAS	N.D.	N.D.
XYLENE	N.D.	N.D.
TOLUENE	N.D.	N.D.
ALIPHATIC PETROLEUM DISTILLA	res N.D.	N.D.
TITANIUM DIOXIDE	>7500 MG/KG (ORAL, RAT)	N.D.
МАРНТНА	>5000 MG/KG (ORAL, RAT)	N.D.
ETHYLBENZENE	3500 MG/KG (ORAL, RAT)	N.D.
AROMATIC HYDROCARBON	N.D.	N.D.
MAGNESIUM SILICATE	N.D.	TCLO: 11 MG/M3 INH.
1,2,4-TRIMETHYLBENZENE	N.D.	18000 MG/M3 (RAT, 4 HR)
ARCMATIC SOLVENT	4700 MG/KG (ORAL, RAT)	3670 MG/KG (INH, RAT)
STODDARD SOLVENTS	N.D.	N.D.
ALIPHATIC HYDROCARBON	N.D.	N.D.
PIGMENT YELLOW 73	N.D.	N.D.
PIGMENT BLACK 7	>8000 MG/KG (ORAL, RAT)	N.D.
PIGMENT YELLOW 17	N.D.	N.D.
1,3,5-TRIMETHYLBENZENE	1303 MG/KG (ORAL, RAT)	24 MG/M3 (RAT, 4HR)
PIGMENT VIOLET 32	>10000 MG/KG (ORAL, RAT)	N.D.
SECTION 1:	2 - ECOLOGICAL INFO	RMATION
ECOLOGICAL INFORMATION: PROD	UCT IS A MIXTURE O	F LISTED COMPONENTS.
SECTION :	13 - DISPOSAL INFOR	MATION —
DISPOSAL INFORMATION: DISPOSE OF MATERIAL IN ACCORDA AND ORDINANCES. DO NOT ALLOW	ANCE TO LOCAL, STAT TO ENTER STORM DR	E AND FEDERAL REGULATIONS VAINS OR SEWER SYSTEMS.

- SECTION 14 - TRANSPORTATION INFORMATION -

DOT PROPER SHIPPING NAME: AEROSOL

DOT TECHNICAL NAME:

DOT HAZARD CLASS: 2.1

DOT UN/NA NUMBER: UN1950

PACKING GROUP:

HAZARD SUBCLASS:

RESP. GUIDE PAGE: 126

- SECTION 15 - REGULATORY INFORMATION -

CERCLA - SARA HAZARD CATEGORY:
THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES"
PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND
REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER
APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:
IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

SARA SECTION 313 LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENIMENT AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

CHEMICAL NAME CAS NUMBER XYLENE 1330-20-7 TOLUENE 108-88-3 ETHYLBENZENE 100-41-4 1,2,4-TRIMETHYLBENZENE 95-63-6

TOXIC SUBSTANCES CONTROL ACT: IDATE SUBSIANCES CHRISTIANTES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12 (B) IF EXPORTED FROM THE UNITED STATES: NONE KNOWN

U.S. STATE REGULATIONS: AS FOLLOWS

NEW JERSEY RIGHT-TO-KNOW: THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE COMPONENTS IN THIS PRODUCT.

CAS NUMBER CHEMICAL NAME POTASSTIM ALIMINOSILICATE 37244-96-5

PENNSYLVANIA RIGHT-TO-KNOW: THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT

GREATER THAN 3%.

CHEMICAL NAME

CAS NUMBER

POTASSIUM ALUMINOSILICATE

37244-96-5

MODIFIED ALKYD

PROPRIETARY

FIED ALKYD

PROPRIETARY

UM SULFATE

7727-43-7

CALCIUM CARBONATE

1317-65-3

CALIFORNIA PROPOSITION 65:

WARNING! THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN BY THE STATE OF CALIFORNIA TO CAUSE CANCER.

WARNING!
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

INTERNATIONAL REGULATIONS: AS FOLLOWS

CANADIAN WHMIS: THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT REGULATIONS EXCEPT FOR THE USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS: AB5 D2A D2B

- SECTION 16 - OTHER INFORMATION -

HMIS RATINGS: HEALTH FLAMMABILITY REACTIVITY

PERSONAL PROTECTION X

VOLATILE ORGANIC COMPOUNDS, G/L:

REASON FOR REVISION:

LEGEND:
N.A. - NOT APPLICABLE
N.E. - NOT ESTABLISHED
N.D. - NOT DETERMINED

THE INFORMATION CONTAINED ON THIS MSDS HAS BEEN CHECKED AND SHOULD BE ACCURATE. HOWEVER, IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.

## ORDER: 10543144076KP13 - Spray Paint Closs Banner Red 12 OEAZMAT: 6KP13

### **HAZARD MATERIAL WARNING SHEET (HAZMAT)**

# When shipment is complete, retain for daily Hazmat audit

\*

GRAINGER SHIPPING INFORMATION
STOCK # : 6KP13
MSDS # : A8809

DOT PROPER SHIP NAME : CONSUMER COMMODITY, ORM-D FLASHPOINT -104 DGS C,

-156 DGS F

: 0843

FLASHPOINT : -104 DEGREES CELSIUS, -155 DEGREES FAHRENHEIT

UPS RESTRICTIONS

FREIGHT CODE

HAZARDOUS CLASS NUMBER : ORM-D

UN ID #

PACKING GROUP

SHIPPING LABEL : Consumer Commodity ORM-D

LIMITED QUANTITY : YES

CARTON INSTRUCTIONS : CAN REPACK IN GRAINGER S CARTON

DOT/UPS EXEMPTION NO. :

COMMENTS : HAZARDOUS MATERIAL. DO NOT SHIP AIR!!

SHIPPING-PAPERS :

ACARD OFFERED ? YES ( ) NO ( ) PLEASE MARK ONE

## ITEM: 6MT35 - PAINT SPRAY

MSDS: A5330

## PICK\_REQ: 1105898516 MATERIAL SAFETY DATA SHEET (MSDS)

THIS MISUS SHOULD BE ACCACHED OF REPL WITH THE PARTY ALL SAFETY DATA SHEET - A5330	respective product with which it is associated. ####################################
iated Grainger Item: 6MT35 - PAINT SPRAY	CO2, SAND, EXTINGUISHING FONDER, OR WATER SPRAY. FIGHT LARGER FIRES WITH WATER SPRAY OR ALCOHOL RESISTANT FOAM.
S(R*) SEYMOUR(R*)	PROTECTIVE EQUIPMENT: MOUNT RESPIRATORY PROTECTIVE DEVICE.
MATERIAL SAFETY DATA SHEET	
ACC. TO ISO/DIS 11014 PRINTING DATE: 05/20/2003	PERSONAL SAFETY PRECAUTIONS: WEAR PROTECTIVE EQUIPMENT. KEEP UNPROTECTED PERSONS AWAY.
REVIEWED ON: 05/20/2003	ENVIRONMENTAL SAFETY PRECAUTIONS: DO NOT ALLOW PRODUCT TO REACH SEWAGE SYSTEMS OR GROUND WATER.
1 IDENTIFICATION OF SUBSTANCE	INFORM APPROPRIATE AUTHORITIES IN CASE OF SEEPAGE INTO WATER COURSE OR SEWAGE SYSTEM.
TRADE NAME: DEM KOUR HETE TE VECTOR	MEASURES FOR CLEANING/COLLECTING:
PRODUCT CODE: GROGMT3500	DO NOT FILESH WITH WATER OR ACCEOUS CLEANSING AGENTS. USE DILLIFED CAUSTIC SOLUTION. SOAK UP SPILLS WITH INERT ABSORBENT MATERIAL, REFER TO SECTION 13 FOR DISPOSAL INFORMATION.
MANUFACTURER/SUPPLIER: SEYMOUR OF SYCAMORE 917 CROSBY AVENUE	FOR DISPOSAL INFORMATION.
SYCAMORE, IL 60178 (815)-895-9101	——————————————————————————————————————
INFORMATION DEPARTMENT: HEALTH & SAFETY DEPARTMENT EMERGENCY INFORMATION: CHEMIEL 1-800-255-3924	SAFE HANDLING INFORMATION: ENSURE GOOD VENITLATION/EXHAUSTION AT THE WORKPLACE. HANDLE CARTON AND CANS WITH CARE.
2 COMPOSITION/DATA ON COMPONENTS -	FIRE/EXPLOSION PROTECTION:  DO NOT SPRAY ON A NAKED FLAME OR ANY INCANDESCENT MATERIAL.
CHEMICAL DESCRIPTION: THIS PRODUCT IS A MIXTURE OF THE SUBSTANCES LISTED BELOW WITH NONHAZARDOUS	KEEP IGNITION SOURCES AWAY - DO NOT SMOKE. PROTECT AGAINST ELECTROSTATIC CHARGES.
ADDITIONS.	STORAGE REQUIREMENTS: OBSERVE OFFICIAL REGULATIONS ON STORING PACKAGINGS WITH PRESSURIZED
DANGEROUS COMPONENTS:	CONTAINERS. CONSULT WITH YOUR LOCAL AUTHORITIES. KEEP AWAY FROM SOURCES OF HEAT AND DIRECT SUNLIGHT. DO NOT WAREHOUSE IN
67-64-1 ACETONE XI, F; R 11-36-66-67 35.32%	SUBFREEZING CONDITIONS.
74-98-6 PROPANE F+; R 12 15.71%	8 EXPOSURE CONTROLS AND PERSONAL PROTECTION
108-88-3 TOLUENE XN, F; R 11-20 11.09% 106-97-8 N-BUTANE F+; R 12 9.23%	COMPONENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE:
106-97-8 N-BUTANE F+; R 12 9.23% 107-87-9 METHYL PROPYL KETONE F; R 11 3.67%	67-64-1 ACETONE PEL: 2400 MG/M3, 1000 PPM
13463-67-7 TTTANIUM DIOXIDE XI; R 37 2.73%	REL: 590 MG/M3, 250 PPM TLV:
5-6 PM ACETATE XI; R 10-36 2.25%	SHORT-TERM VALUE: 1782 MG/M3, 750 PPM LONG-TERM VALUE: 1188 MG/M3, 500 PPM
10-9 GLYCOL ETHER EP XI; R 10-36/37/38 1.45%	BEI
DITIONAL INFORMATION: FOR THE WORDING OF THE LISTED RISK PHRASES REFER TO SECTION 3.	74-98-6 PROPANE PEL: 1800 MG/M3, 1000 PPM REL: 1800 MG/M3, 1000 PPM TLV: 4508 MG/M3, 2500 PPM
3 HAZARDS IDENTIFICATION —	108-88-3 TOLUENE PEL:
HAZARD DESCRIPTION: XN: HARMFUL	SHORT-TERM VALUE: C 300; 500* PPM LONG-TERM VALUE: 200 PPM
F+: EXTREMELY FLAMMABLE	*10-MIN PEAK PER 8-HR SHIFT   REL:
PHYSICAL AND ENVIRONMENTAL DANGERS: WARNING: PRESSURIZED CONTAINER.	SHORT-TERM VALUE: 560 MG/M3, 150 PPM LONG-TERM VALUE: 375 MG/M3, 100 PPM TLV: 188 MG/M3, 50 PPM
R 12: EXTREMELY FLAMMABLE. R 20: HARMFUL BY INHALATION.	SKIN: BEI 106-97-8 N-BUTANE
R 36/37: IRRITATING TO EYES AND RESPIRATORY SYSTEM.  PRESSURIZED CONTAINER:	REL: 1900 MG/MG, 800 PPM TLV: 1900 MG/MG, 800 PPM
PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 DBG. C, I.E. ELECTRIC LIGHTS. DO NOT PIERCE OR BURN; EVEN AFTER USE. KEEP OUT OF THE REACH OF CHILDREN.	107-87-9 METHYL PROPYL KETCNE PEL: 700 MG/M3, 200 PPM REL: 530 MG/M3, 150 PPM
NFPA RATINGS (SCALE 0-4): HEALTH = 1 . FIRE = 4	TILV: SHORT-TERM VALUE: 881 MG/M3,250 PPM LONG-TERM VALUE: 705 MG/M3,200 PPM
REACTIVITY = 3	PROTECTIVE HYGIENIC MEASURES: KEEP AWAY FROM FOODSTUFFS, BEVERAGES, AND ANIMAL FEED.
HMIS-RATINGS (SCALE 0-4): HEALTH = 1	IMMEDIATELY REMOVE ALL SOILED AND CONTAMINATED CLOTHING: WASH HANDS BEFORE BREAKS AND AT THE END OF WORK.
FIRE = 3 PHYSICAL HAZARD = 3	BREATHING EQUIPMENT:
4 First aid measures	FOR EPISODES OF BRIEF EXPOSURE, USE A RESPIRATORY FILTER DEVICE. IN CASES OF INTENSIVE OR LONGER EXPOSURES, USE A RESPIRATORY PROTECTIVE DEVICE THAT IS INDEPENDENT OF CIRCULATING AIR.
GENERAL INFORMATION: SYMPYOMS OF POISONING MAY OCCUR EVEN AFTER SEVERAL HOURS. MEDICAL OBSERVATION FOR AT LEAST 48 HOURS AFTER THE ACCIDENT IS RECOMMENDED.	PROTECTION OF HANDS: PROTECTIVE GLOVES. THE GLOVE MATERIAL HAS TO BE IMPERMEABLE AND RESISTANT THE SUBSTANCE. NO GLOVE RECOMMENDATION CAN BE GIVEN.
AFTER INHALATION: IN CASE OF UNCONSCIOUSNESS, PLACE PATIENT IN SIDE POSITION FOR	EYE PROTECTION: TIGHTLY SEALED GOGGLES
FRANSPORTATION. SUPPLY FRESH AIR. IF NECESSARY. PROVIDE ARTIFICIAL RESPIRATION KEEP PATTENT	9 PHYSICAL AND CHEMICAL PROPERTIES
VARM. CONSULT DOCTOR IF SYMPTOMS PERSIST.  APPEND SKIN CONTACT: GENERALLY THE PRODUCT DOES NOT IRRITATE THE SKIN.	GENERAL INFORMATION:
EYE CONTACT:	FORM: AEROSOL
OPENED EYE FOR SEVERAL MINUTES UNDER RUNNING WATER. IF SYMPTOMS , CONSULT A DOCTOR.	COLOR: ACCORDING TO TRADE NAME DESCRIPTION IN SECTION 1.
AFTER SWALLOWING: CONSULT A DOCTOR IF SYMPTOMS PERSIST.	BOILING POINT/BOILING RANGE: -44 DEG. C (-47 DEG. F)
	FLASH POINT: -19 DEG. C (-2 DEG. F)

5 FIRE FIGHTING MEASURES -

IGNITION TEMPERATURE: 365.0 DEG. C (689 DEG. F)

DANGER OF EXPLOSION: HEATING MAY CAUSE AN EXPLOSION. IN USE, MAY FORM FLAMMABLE/EXPLOSIVE VAPOUR-AIR MIXTURE. 22464-99-9 SOLID ZIRCO DRIER XYLENE (MIX) LOWER EXPLOSION LIMIT: 1.2 VOL % EXPLOSION LIMIT: 13.0 VOL % PROPOSITION 65 CHEMICALS KNOWN TO CAUSE CANCER: NONE OF THE INGREDIENTS IN THIS PRODUCT ARE LISTED. PRESSURE AT 20 DEG. C (68 DEG. F): 8300.0 HPA (6226 MM HG) PROPOSITION 65 CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY: SPECIFIC GRAVITY: BETWEEN 0.77 AND 0.90 (WATER EQUALS 1.00) 108-88-3 CANADIAN WHMIS:
THIS PRODUCT HAS BEEN CLASSIFIED ACCORDING TO THE CONTROLLED PRODUCT
REGULATIONS AND THE MSDS CONTAINS ALL THE NECESSARY INFORMATION REQUIRED BY
THE CPR. VOC CONTENT: 0.45 KG/L / 3.78 LB/GL VOC IN WEIGHT PERCENT (LESS ACETONE): 45.3% SOLIDS CONTENT: 18.9% B, D5 - FLAMMABLE AEROSOLS SH'A:
A = KNOWN HUMAN CARCINOGEN
B = PROBABLEHUMAN CARCINOGEN
C = POSSIBLE HUMAN CARCINOGEN
D = NOT CLASSIFIABLE AS TO HUMAN CARCINOGENICITY:
INADEQUATE HUMAN AND ANIMAL EVIDENCE OF CARCINOGENICITY (OR NO DATA IS AVAILABLE). STABILITY AND REACTIVITY -- 10 CONDITIONS TO BE AVOIDED: DO NOT ALLOW THE CAN TO EXCEED 120 DEGREES FAHRENHEIT. STABLE AT NORMAL TEMPERATURES. DANGEROUS REACTIONS: NO DANGEROUS REACTIONS KNOWN. . D ACETONE 67-64-1 - 11 TOXICOLOGICAL INFORMATION D 108-88-3 TOLUENE PRIMARY EFFECT ON THE SKIN: NO IRRITANT EFFECT. 110-19-0 ISOBUTYL ACETATE D PRIMARY EFFECT ON THE EYE: IRRITATING EFFECT. 1330-20-7 XYLENE (MTX) D SENSITIZATION: NO SENSITIZING EFFECTS KNOWN. ETHYL BENZENE 100-41-4 ADDITIONAL TOXICOLOGICAL INFORMATION: HARMFUL TARC: - 12 ECOLOGICAL INFORMATION GROUP 2B: GROUP AD: THE INGREDIENT IS POSSIBLY CARCINOGENIC TO HUMANS. THERE IS LIMITED EVIDENCE OF CARCINOGENICITY. OTHER INFORMATION:
THIS PRODUCT DOES NOT CONTAIN ANY CHLORINATED SOLVENIS OR LEAD. NO SPECIFIC ECOLOGICAL DATA IS AVAILABLE FOR THIS PRODUCT. GROUP 3: THE INCREDIENT IS UNCLASSIFIABLE AS TO ITS CARCINGENICITY TO HTIMANS ACQUATIC TOXICITY: HARMFUL TO AQUATIC ORGANISMS. HAZARDOUS FOR WATER, DO NOT EMPTY INTO DRAINS. 108-88-3 TOLUENE 3 13463-67-7 TITANIUM DIOXIDE 3 1330-20-7 XYLENE (MIX) . - 13 DISPOSAL CONSIDERATIONS DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT FUNCTURE, INCLINERATE, OR COMPACT. EMPTY CONTAINERS MUST BE HANDLED WITH CARE DUE TO PRODUCT RESIDUE. DO NOT HEAT OR CUT EMPTY CONTAINERS WITH ELECTRIC OR ACGIH ACGIH
'ILVS:
Al-DESIGNATES A CONFIRMED HUMAN CARCINOGEN.
A2-DESIGNATES A SUSPECTED HUMAN CARCINOGEN.
A3-DESIGNATES AN ANIMAL CARCINOGEN.
A4-DESIGNATES 'NOT CLASSIFIABLE AS A HUMAN CARCINOGEN". GAS TORCHES. ACETONE DISPOSE WITH HOUSEHOLD GARBAGE. DO NOT ALLOW PRODUCT TO REACH SEWAGE TOLUENE A4 108-86-3 TITANIUM DIOXIDE 13463-67-7 14 TRANSPORT INFORMATION 110-19-0 ISOBUTYL ACETATE A4 HAZARD CLASS: 2.1 IDENTIFICATION NUMBER: N/A LABEL: 2.1 1330-20-7 XYLENE (MIX) NTOSH: ADR/RID CLASS: 2 GASES UN-NUMBER: 1950 13463-67-7 TITANIUM DIOXIDE IMDG CLASS: 2
PACKAGING GROUP: II
EMS NUMBER: F-D,S-U
MARINE POLLUTANT: NO 16 OTHER INFORMATION . THIS INFORMATION IS BASED ON OUR PRESENT KNOWLEDGE. HOWEVER, THIS SHALL N CONSTITUTE A GUARANTEE FOR ANY SPECIFIC PRODUCT FEATURES AND SHALL NOT ESTABLISH A LEGALLY VALID CONTRACTUAL RELATIONSHIP. ICAO/IATA CLASS: 2.1 PROPER SHIPPING NAME: AEROSOLS, FLAMMABLE CONSUMER COMMODITY ORM-D CONTACT: SWAFFORD REGULATORY AFFAIRS IISA - 15 REGULATIONS SARA SECTION 355 (EXTREMELY HAZARDOUS SUBSTANCES): NONE OF THE INCREDIENTS IN THIS PRODUCT ARE LISTED SARA SECTION 313 (SPECIFIC TOXIC CHEMICAL LISTINGS): 108-88-3 TOLUENE 1330-20-7 XYLENE (MIX) TSCA (TOXIC SUBSTANCES CONTROL ACT): 67-64-1 ACETONE 74-98-6 PROPANE 108-88-3 TOLUENE 106-97-8 N-BUTANE 107-87-9 METHYL PROPYL KETONE 13463-67-7 TITANIUM DIOXIDE 108=65-6 PM ACETATE 12-0 NOVAPERM YELLOW PIGMENT . 10-9 GLYCOL ETHER EP 175-19-0 ISOBUTYL ACETATE 51274-00-1 YELLOW IRON OXIDE

SC-100

MINERAL SPIRITS

64742-95-6

64742-47-8

AUTO IGNITING: PRODUCT IS NOT SELF-IGNITING.

This MSDS should be attached or kept with the respective product with which it is associated.

TOXIC

AL SAFETY DATA SHEET - A1171

Associated Grainger Items

6MT51

MATERIAL SAFETY DATA SHEET

ACC. TO ISO/DIS 11014

PRINTING DATE: 01/12/2001 REVIEWED ON: 09/19/2000

-----1 IDENTIFICATION OF SUBSTANCE -----

PRODUCT DETAILS

GLÖSS BLACI TRADE NAME

PRODUCT CODE: GROSMT5200

MANUFACTURER/SUPPLIER:

SRYMOUR OF SYCAMORE

917 CROSBY AVENUE

SYCAMORE, IL 60178

L) (R\*)

+1 815-895-9101

INFORMATION DEPARTMENT: HEALTH & SAFETY DEPARTMENT

BMERGENCY INFORMATION: CHEMTREC 1 800 255 3924

----2 COMPOSITION/DATA ON COMPONENTS -----

CHEMICAL CHARACTERIZATION:

DESCRIPTION:

MIXTURE OF THE SUBSTANCES LISTED BELOW WITH NONHAZARDOUS ADDITIONS.

DANGEROUS COMPONENTS:

64742-89-8 SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPH. 20.6302 %

74-98-6 PROPANE 15.7443 %

1317-65-3 CALCIUM CARBONATE 12.1758 %

106-97-8 BUTANE 9.2466 \$

7-8 DISTILLATES (PETROLEUM), HYDROTRRATED LIGHT 4.1859 %

64742-95-6 SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. 1.0913 %

-----3 HAZARDS IDENTIFICATION -----

HAZARD DESCRIPTION.

EXTREMELY FLAMMABLE

INFORMATION PERTAINING TO PARTICULAR DANGERS FOR MAN AND ENVIRONMENT:

MAY CAUSE CANCER.

EXTREMELY FLAMMABLE.

HARMFUL BY INHALATION.

IRRITATING TO BYBS.

PRESSURIZED CONTAINER:

PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 DEG. C,

I.E. BLECTRIC LIGHTS. DO NOT PIERCE OR BURN, EVEN AFTER USE.

CONTAINS 84.7 MASS PERCENT INFLAMMABLE MATERIALS.

KEEP OUT OF THE REACH OF CHILDREN.

CLASSIFICATION SYSTEM:

THE CLASSIFICATION WAS MADE ACCORDING TO THE LATEST EDITIONS OF

INTERNATIONAL SUBSTANCES LISTS, AND EXPANDED UPON FROM COMPANY AND

LITERATURE DATA.

NFPA RATINGS (SCALE 0 - 4)

HRALTH

FIRE

REACTIVITY = 3

HMIS - RATINGS (SCALE 0 - 4)

HEALTH = 1

FIRE = 3

REACTIVITY = 3

-----4 FIRST AID MEASURES -----

GENERAL INFORMATION:

SYMPTOMS OF POISONING MAY EVEN OCCUR AFTER SEVERAL HOURS; THEREFORE MEDICAL

OBSERVATION FOR AT LEAST 48 HOURS AFTER THE ACCIDENT.

AFTER INHALATION:

SUPPLY FRESH AIR. IF REQUIRED, PROVIDE ARTIFICIAL RESPIRATION. KEEP PATIENT

WARM. CONSULT DOCTOR IF SYMPTOMS PERSIST.

IN CASE OF UNCONSCIOUSNESS PLACE PATIENT STABLY IN SIDE POSITION FOR

TRANSPORTATION.

AFTER SKIN CONTACT:

IMMEDIATELY RINSE WITH WATER.

AFTER BYB CONTACT:

RINSE OPENED EYE FOR SEVERAL MINUTES UNDER RUNNING WATER. IF SYMPTOMS

PERSIST, CONSULT A DOCTOR.

AFTER SWALLOWING:

IF SYMPTOMS PERSIST CONSULT DOCTOR.

---- -- FIRE FIGHTING MRASURES -----

SUITABLE EXTINGUISHING AGENTS:

ND, EXTINGUISHING POWDER. DO NOT USE WATER.

FOR SAFETY REASONS UNSUITABLE EXTINGUISHING AGENTS:

az men

WATER WITH FULL JET

PROTECTIVE EQUIPMENT:

MOUNT RESPIRATORY PROTECTIVE DEVICE.

-----6 ACCIDENTAL RELEASE MEASURES -----

PERSON-RELATED SAFETY PRECAUTIONS:

WEAR PROTECTIVE EQUIPMENT. KEEP UNPROTECTED PERSONS AWAY.

MEASURES FOR ENVIRONMENTAL PROTECTION:

DO NOT ALLOW PRODUCT TO REACH SEWAGE SYSTEM OR ANY WATER COURSE.

INFORM RESPECTIVE AUTHORITIES IN CASE OF SEEPAGE INTO WATER COURSE OR

SEWAGE SYSTEM.

DO NOT ALLOW TO ENTER SEWERS/SURFACE OR GROUND WATER.

MEASURES FOR CLEANING/COLLECTING:

DISPOSE CONTAMINATED MATERIAL AS WASTE ACCORDING TO ITEM 13.

ENSURE ADEQUATE VENTILATION.

DO NOT FLUSH WITH WATER OR AQUBOUS CLEANSING AGENTS.

-7 HANDLING AND STORAGE -----

HANDLING:

INFORMATION FOR SAFE HANDLING:

ENSURE GOOD VENTILATION/EXHAUSTION AT THE WORKPLACE.

OPEN AND HANDLE RECEPTACLE WITH CARE.

INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES:

KEEP IGNITION SOURCES AWAY - DO NOT SMOKE.

PROTECT AGAINST BLECTROSTATIC CHARGES.

KEEP RESPIRATORY PROTECTIVE DEVICE AVAILABLE.

PRESSURIZED CONTAINER:

PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 DEG. C,

I.E. ELECTRIC LIGHTS. DO NOT PIERCE OR BURN, EVEN AFTER USE.

DO NOT SPRAY ON A NAKED FLAME OR ANY INCANDESCENT MATERIAL.

STORAGE:

REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES:

STORE IN A COOL LOCATION.

OBSERVE OFFICIAL REGULATIONS ON STORING PACKAGINGS WITH PRESSURIZED

CONTAINERS.

· INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY:

OUIRBD.

FURTHER INFORMATION ABOUT STORAGE CONDITIONS:

KEEP RECEPTACLE TIGHTLY SEALED.

DO NOT GAS TIGHT SEAL RECEPTACLE.

STORE IN COOL, DRY CONDITIONS IN WELL SEALED RECEPTACLES.

PROTECT FROM HEAT AND DIRECT SUNLIGHT.

-----8 EXPOSURE CONTROLS AND PERSONAL PROTECTION -----

ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL SYSTEMS:

NO FURTHER DATA; SEE ITEM 7.

COMPONENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE:

74-98-6 PROPANE

ACGIR TLV 4508 MG/M3, 2500 PPM
NIOSH REL 1800 MG/M3, 1000 PPM
OSHA PEL 1800 MG/M3, 1000 PPM

1317-65-3 CALCIUM CARBONATE

ACGIH TLV 10 MG/M3

(B)

NIOSH REL 10\*: 5\*\* MG/M3

\*TOTAL DUST \*\*RESPIRABLE FRACTION

OSHA PEL 15\*: 5\*\* MG/M3

\*TOTAL DUST \*\*RESPIRABLE FRACTION

106-97-8 BUTANE

ACGIH TLV 1900 MG/M3; 800 PPM

NIOSH REL 1900 MG/M3; 800 PPM

ADDITIONAL INFORMATION:

THE LISTS THAT WERE VALID DURING THE CREATION WERE USED AS BASIS.

PERSONAL PROTECTIVE EQUIPMENT:

GENERAL PROTECTIVE AND HYGIENIC MEASURES:

KEEP AWAY FROM FOODSTUFFS, BEVERAGES AND FEED.

IMMEDIATELY REMOVE ALL SOILED AND CONTAMINATED CLOTHING.

WASH HANDS BEFORE BREAKS AND AT THE END OF WORK.

STORE PROTECTIVE CLOTHING SEPARATELY.

AVOID CONTACT WITH THE EYES.

AVOID CONTACT WITH THE BYES AND SKIN.

BREATHING BQUIPMENT:

IN CASE OF BRIEF EXPOSURE OR LOW POLLUTION USE RESPIRATORY FILTER DEVICE. IN CASE OF INTENSIVE OR LONGER EXPOSURE USE RESPIRATORY PROTECTIVE DEVICE THAT IS INDEPENDENT OF CIRCULATING AIR.

PROTECTION OF HANDS:

PROTECTIVE GLOVES

EYE PROTECTION:

TIGHTLY SHALED GOGGLES

----- PHYSICAL AND CHEMICAL PROPERTIES -----

FORM:

ABROSO

COLOR.

ACCORDING TO PRODUCT SPECIFICATION



CHANGE IN CONDITION

MELTING POINT/MELTING RANGE: UNDETERMINED.

BOILING POINT/BOILING RANGE: -44 DEG. C (-47-DEG. P)

FLASH POINT:

-19 DEG. C (-2 DEG. F)

IGNITION TEMPERATURE:

365.0 DEG. C (689 DEG. F)

AUTO IGNITING:

PRODUCT IS NOT SELF IGNITING.

DANGER OF EXPLOSION:

PRESSURIZED CONTAINER: PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 DEG. C, I.E., ELECTRIC LIGHTS. DO NOT PIERCE OR BURN. EVEN AFTER USE.

EXPLOSION LIMITS:

LOWER: 1.7 VOL &

PRESSURE AT 20 DBG. C (68 DBG. F):

DENSITY:

NOT DETERMINED.

SOLUBILITY IN /MISCIBILITY WITH

WATER: NOT MISCIBLE OR DIFFICULT TO MIX.

SOLVENT CONTENT:

ORGANIC SOLVENTS: 47.5%

WATER: 25.2%

SOLIDS CONTENT: 15.3%

-----10 STABILITY AND REACTIVITY -----

THERMAL DECOMPOSITION/CONDITIONS TO BE AVOIDED:

NO DECOMPOSITION IF USED ACCORDING TO SPECIFICATIONS.

DANGEROUS REACTIONS:

NO DANGEROUS REACTIONS KNOWN.

DANGEROUS PRODUCTS OF DECOMPOSITION:

SEROUS DECOMPOSITION PRODUCTS KNOWN.

-----11 TOXICOLOGICAL INFORMATION -----

ACUTE TOXICITY:

PRIMARY IRRITANT BYFECT:

ON THE SKIN: NO IRRITANT EFFECT.

ON THE BYE: IRRITATING EFFECT.

SENSITIZATION:

NO SENSITIZING EFFECTS KNOWN.

ADDITIONAL TOXICOLOGICAL INFORMATION:

THE PRODUCT SHOWS THE FOLLOWING DANGERS ACCORDING TO INTERNALLY APPROVED

CALCULATION METHODS FOR PREPARATIONS:

HARMFUL.

IRRITANT.

CARCINOGENIC.

-----12 ECOLOGICAL INFORMATION -----

GENERAL NOTES:

WATER HAZARD CLASS 2 (SELF-ASSESSMENT): HAZARDOUS FOR WATER

DO NOT ALLOW PRODUCT TO REACH GROUND WATER, WATER COURSE OR SEWAGE SYSTEM.

DANGER TO DRINKING WATER IF EVEN SMALL QUANTITIES LEAK INTO THE GROUND.

-----13 DISPOSAL CONSIDERATIONS -----

DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT PUNCTURE, INCINERATE, OR COMPACT. EMPTY CONTAINERS MUST BE HANDLED WITH CARE DUE TO PRODUCT RESIDUE. DO NOT HEAT OR CUT EMPTY CONTAINERS WITH ELECTRIC OR GAS TORCHES.

PRODUCT:

RECOMMENDATION:

MUST NOT BE DISPOSED OF TOGETHER WITH HOUSEHOLD GARBAGE. DO NOT ALLOW

PRODUCT TO REACH SEWAGE SYSTEM.

UNCLEANED PACKAGINGS:

RECOMMENDATION:

DISPOSAL MUST BE MADE ACCORDING TO OFFICIAL REGULATIONS.

-----14 TRANSPORT INFORMATION -----

DOT REGULATIONS:

FLAMMABLE GAS,

CLASS/DIVISION 2.1

HAZARD CLASS:

2.1

IDENTIFICATION NUMBER: UN1950

PACKING GROUP:

PROPER SHIPPING NAME (TECHNICAL NAME): AEROSOLS, FLAMMABLE, N.O.S. PROPANE

LAND TRANSPORT ADR/RID (CROSS-BORDER):

CLASS 2

FLAMMABLE GASES

ADR/PID CLASS:

2 GASES

ITEM:

5 P

BR:

1950

FTION OF GOODS: 1950 AEROSOLS

MARITIME TRANSPORT IMDG:

DANGER CODE (KEMLER): -

FLAMMABLE GAS

CLASS/DIVISION 2

PACKAGING GROUP:

IMDG CLASS:

2

PAGE:

2102

UN NUMBER:

1950

EMS NUMBER:

2-13

MFAG:

620

MARINE POLLUTANT:

NΩ

PROPER SHIPPING NAME: AEROSOLS

AIR TRANSPORT ICAO-TI AND IATA-DGR:

PLAMMABLE GAS

CLASS/DIVISION 2.1

ICAO/IATA CLASS:

2.1

UN/ID NUMBER:

PACKAGING GROUP:

PROPER SHIPPING NAME: AEROSOLS, FLAMMABLE, N.O.S., PROPANE

5 REGULATIONS -----

SECTION 355 (EXTREMELY HAZARDOUS SUBSTANCES):

NONE OF THE INGREDIENT IS LISTED.

SECTION 313 (SPECIFIC TOXIC CHEMICAL LISTINGS):

1330-20-7 XYLENE (MIX)

100-41-4

ETHYLBENZENE

TSCA (TOXIC SUBSTANCES CONTROL ACT):

7732-18-5 WATER

64742-89-8 SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPH.

74-98-6 PROPANE

106-97-8 BUTANE

64742-47-8 DISTILLATES (PETROLEUM), HYDROTREATED LIGHT

64742-95-6 SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

2425-85-6 1-(4-MRTHYL-2-NITROPHENYLAZO)-2-NAPHTHOL 13463-67-7 TITANIUM DIOXIDR

1330-20-7 XYLENE (MIX)

100-41-4 ETHYLBENZENE

PROPOSITION 65

CHEMICALS KNOWN TO CAUSE CANCER:

THE INGREDIENTS IS LISTED.

CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY:

NONE OF THE INGREDIENTS IS LISTED.

PRODUCT RELATED HAZARD INFORMATIONS:

THE PRODUCT HAS BEEN CLASSIFIED AND MARKED IN ACCORDANCE WITH DIRECTIVES ON

HAZARDOUS MATERIALS.

HAZARD SYMBOLS:

TOXIC

EXTREMELY PLAMMABLE

HAZARD-DETERMINING COMPONENTS OF LABELING:

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

RISK PHRASES:

MAY CAUSE CANCER.

EXTREMELY FLAMMABLE.

HARMFUL BY INHALATION.

IRRITATING TO BYES.

SAFRTY PHRASES:

AVOID EXPOSURE - OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.

KERP LOCKED UP AND OUT OF THE REACH OF CHILDREN.

DO NOT BREATHE GAS/FUMES/VAPOUR/SPRAY.

DO NOT EMPTY INTO DRAINS, DISPOSE OF THIS MATERIAL AND ITS CONTAINER AT

HAZARDOUS OR SPECIAL WASTE COLLECTION POINT

IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT.

SPECIAL LABBLING OF CERTAIN PREPARATIONS:

PRESSURIZED CONTAINER: PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO

TEMPERATURES EXCEEDING 50 DEG. C, I.E. BLECTRIC LIGHTS. DO NOT PIERCE OR

BURN, EVEN AFTER USE.

CONTAINS 84.7 MASS PERCENT INFLAMMABLE MATERIALS.

KEEP OUT OF THE REACH OF CHILDREN.

NATIONAL REGULATIONS:

TECHNICAL INSTRUCTIONS (AIR):

CLASS SHARR IN & WATER 25.2 ıı 1.9

III 25.0 NK 20.6

WATER HAZARD CLASS:

WATER HAZARD CLASS 2 (SELF-ASSESSMENT): HAZARDOUS FOR WATER.

-----16 OTHER INFORMATION -----

THIS INFORMATION IS BASED ON OUR PRESENT KNOWLEDGE. HOWEVER, THIS SHALL NOT CONSTITUTE A GUARANTEE FOR ANY SPECIFIC PRODUCT FEATURES AND SHALL NOT ESTABLISH A LEGALLY VALID CONTRACTUAL RELATIONSHIP.

CONTACT: CRAIG SWAFFORD

USA

When shipment is complete, retain for daily Harmat audit.

R SHIPPING INFORMATION

STOCK #

. 6MT51

MEDS #

: A1171

FREIGHT CODE

: 0800

DOT PROPER SHIP NAME : CONSUMER COMMODITY, ORM-D

UPS RESTRICTIONS

: 20 LB. & UNDER REQUIRES 200 LB. BSC/32 ECT,

21 LB. & OVER REQUIRES 275 LB. BSC/44 ECT.

HAZARDOUS CLASS NUMBER :

UN ID#

PACKING GROUP

SHIPPING LABEL

: ORM-D

LIMITED QUANTITY

. Y

CARTON INSTRUCTIONS

: CAN REPACK IN GRAINGER S CARTON

RECEPTION

DOT/UPS EXEMPTION NO. :

COMMENTS 1

: HAZARDOUS MATERIAL. DO NOT SHIP AIR!!

COMMENTS 2

SHIPPING PAPERS

: AUTOMATED BILL OF LADING REQUIRED FOR TRUCK SHIPMENTS.

PLACARD OFFERED ? YES ( ) NO ( ) PLEASE MARK ONE

ERG TO ACCOMPANY SHIPMENT

0125076534

MATERIAL SAPETY DATA SHEET (MSDS)

6MT33 TEMPERATURES EXCEEDING 50 DEG. C, I.E. ELECTRIC LIGHTS. DO NOT PIERCE OR

This MSDS should be attached or kept with the respective product with which

L SAFETY DATA SHRET - A1153

Associated Grainger Items

6MT33

MATERIAL SAFETY DATA SHEET

ACC. TO ISO/DIS 11014

PRINTING DATE: 01/12/2001

REVIEWED ON: 09/19/2000

-----1 IDENTIFICATION OF SUBSTANCE -----

PRODUCT DETAILS:

TRADE NAME GLOSS YELLOW

PRODUCT CODE: GRO6MT3300

MANUFACTURER/SUPPLIER: SEYMOUR OF SYCAMORE

917 CROSBY AVENUE

SYCAMORE, IL 60178

+1 815-895-9101

INFORMATION DEPARTMENT: HEALTH & SAFETY DEPARTMENT

EMERGENCY INFORMATION: CHEMTREC 1 800 255 3924

----2 COMPOSITION/DATA ON COMPONENTS -----

CHEMICAL CHARACTERIZATION:

DESCRIPTION:

MIXTURE OF THE SUBSTANCES LISTED BELOW WITH NONHAZARDOUS ADDITIONS.

DANGEROUS COMPONENTS: VOID

----3 HAZARDS IDENTIFICATION -----

HAZARD DESCRIPTION:

TOXIC

EXTREMELY FLAMMABLE

ATION PERTAINING TO PARTICULAR DANGERS FOR MAN AND ENVIRONMENT: AUSE CANCER.

EXTREMELY FLAMMABLE.

HARMFUL BY INHALATION.

IRRITATING TO EYES.

PRESSURIZED CONTAINER: PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO

BURN. EVEN APTER USB.

CONTAINS 82.2 MASS PERCENT INFLAMMABLE MATERIALS.

CLASSIFICATION SYSTEM:

THE CLASSIFICATION WAS MADE ACCORDING TO THE LATEST EDITIONS OF INTERNATIONAL SUBSTANCES LISTS, AND EXPANDED UPON FROM COMPANY AND

LITERATURE DATA.

NFPA RATINGS (SCALE 0 - 4)

HEALTH = 1

FIRE

REACTIVITY = 3

HMIS-RATINGS (SCALE 0 - 4)

HEALTH = 1

PIRE = 3

REACTIVITY = 3

-----4 FIRST AID MEASURES -----

GENERAL INFORMATION:

SYMPTOMS OF POISONING MAY EVEN OCCUR AFTER SEVERAL HOURS: THEREFORE MEDICAL

OBSERVATION FOR AT LEAST 48 HOURS AFTER THE ACCIDENT.

AFTER INHALATION:

SUPPLY FRESH AIR. IF REQUIRED, PROVIDE ARTIFICIAL RESPIRATION. KEEP PATIENT WARM. CONSULT DOCTOR IF SYMPTOMS PERSIST.

IN CASE OF UNCONSCIOUSNESS PLACE PATIENT STABLY IN SIDE POSITION FOR

AFTER SKIN CONTACT: IMMEDIATELY RINSE WITH WATER.

AFTER BYE CONTACT:

RINSE OPENED BYE FOR SEVERAL MINUTES UNDER RUNNING WATER. IF SYMPTOMS PERSIST, CONSULT A DOCTOR.

AFTER SWALLOWING: IF SYMPTOMS PERSIST CONSULT DOCTOR.

----- FIRE FIGHTING MEASURES -----

SUITABLE EXTINGUISHING AGENTS:

CO2, SAND, EXTINGUISHING POWDER. DO NOT USE WATER.

FOR SAFETY REASONS UNSUITABLE EXTINGUISHING AGENTS:

WATER

WATER WITH FULL JET

PROTECTIVE EQUIPMENT: MOUNT RESPIRATORY PROTECTIVE DEVICE.

-----6 ACCIDENTAL RELEASE MEASURES -----

PERSON-RELATED SAFETY PRECAUTIONS:

WEAR PROTECTIVE EQUIPMENT. KEEP UNPROTECTED PERSONS AWAY.

MEASURES FOR ENVIRONMENTAL PROTECTION:

DO NOT ALLOW PRODUCT TO REACH SEWAGE SYSTEM OR ANY WATER COURSE.

INFORM RESPECTIVE AUTHORITIES IN CASE OF SEEPAGE INTO WATER COURSE OR SEWAGE

ALLOW TO ENTER SEWERS/SURFACE OR GROUND WATER.

MEASURES FOR CLEANING/COLLECTING:

DISPOSE CONTAMINATED MATERIAL AS WASTE ACCORDING TO ITEM 13.

ENSURE ADEQUATE VENTILATION.

DO NOT FLUSH WITH WATER OR AQUEOUS CLEANSING AGENTS

----- HANDLING AND STORAGE -----

HANDLING:

INFORMATION FOR SAFE HANDLING:

ENSURE GOOD VENTILATION/EXHAUSTION AT THE WORKPLACE.

OPEN AND HANDLE RECEPTACLE WITH CARE.

INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES:

KREP IGNITION SOURCES AWAY - DO NOT SMOKE.

PROTECT AGAINST ELECTROSTATIC CHARGES.

KREP RESPIRATORY PROTECTIVE DEVICE AVAILABLE.

PRESSURIZED CONTAINER: PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO

TEMPERATURES EXCEEDING 50 DBG. C, I.B. ELECTRIC LIGHTS. DO NOT PIERCE OR

BURN, EVEN AFTER USE.

DO NOT SPRAY ON A NAKED FLAME OR ANY INCANDESCENT MATERIAL.



REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES:

STORE IN A COOL LOCATION.

OBSERVE OFFICIAL REGULATIONS ON STORING PACKAGINGS WITH PRESSURIZED

CONTAINERS.

INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY: NOT REQUIRED.

FURTHER INFORMATION ABOUT STORAGE CONDITIONS:

KEEP RECEPTACLE TIGHTLY SEALED.

DO NOT GAS TIGHT SEAL RECEPTACLE.

STORE IN COOL, DRY CONDITIONS IN WELL SEALED RECEPTACLES.

PROTECT FROM HEAT AND DIRECT SUNLIGHT.

----- EXPOSURE CONTROLS AND PERSONAL PROTECTION -----

ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL SYSTEMS:

NO FURTHER DATA; SEE ITEM 7.

COMPONENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE:

THE PRODUCT DOBS NOT CONTAIN ANY RELEVANT QUANTITIES OF MATERIALS WITH

CAL VALUES THAT HAVE TO BE MONITORED AT THE WORKPLACE.

IONAL INFORMATION:

THE LISTS THAT WERE VALID DURING THE CREATION WERE USED AS BASIS.

GENERAL PROTECTIVE AND HYGIENIC MEASURES:

KEEP AWAY FROM FOODSTUFFS, BEVERAGES AND PEED.

IMMEDIATELY REMOVE ALL SOILED AND CONTAMINATED CLOTHING.

WASH HANDS BEFORE BREAKS AND AT THE END OF WORK.

STORE PROTECTIVE CLOTHING SEPARATELY.

AVOID CONTACT WITH THE EYES.

AVOID CONTACT WITH THE EYES AND SKIN.

BREATHING EQUIPMENT:

IN CASE OF BRIEF EXPOSURE OR LOW POLLUTION USE RESPIRATORY FILTER DEVICE. IN CASE OF INTENSIVE OR LONGER EXPOSURE USE RESPIRATORY PROTECTIVE DEVICE THAT

IS INDEPENDENT OF CIRCULATING AIR.

PROTECTION OF HANDS: PROTECTIVE GLOVES

EYE PROTECTION: TIGHTLY SEALED GOGGLES

-----9 PHYSICAL AND CHEMICAL PROPERTIES -----

FORM: ABROSOL

COLOR: ACCORDING TO PRODUCT SPECIFICATION

ODOR: CHARACTERISTIC

CHANGE IN CONDITION:

MELTING POINT/MELTING RANGE: UNDETERMINED

BOILING POINT/BOILING RANGE: -44 DEG. C (-47 DEG. F)

FLASH POINT: -19 DEG. C (-2 DEG. F)

IGNITION TEMPERATURE: 365.0 DEG. C (689 DEG. F)

AUTO IGNITING: PRODUCT IS NOT SELFIGNITING.

DANGER OF EXPLOSION:

PRESSURIZED CONTAINER: PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO
TEMPERATURES EXCEEDING 50 DEG. C, I.E. BLECTRIC LIGHTS. DO NOT PIERCE OR
BURN. EVEN AFTER USE.

EXPLOSION LIMITS:

LOWER: 1.1 VOL \$

UPPER: 13.0 VOL %

VAPOR PRESSURE AT 20 DEG. C (68 DEG. F): 8300.0 HPA

DENSITY: NOT DETERMINED.

SOLUBILITY IN/MISCIBILITY WITH WATER: NOT MISCIBLE OR DIFFICULT TO MIX.

SOLVENT CONTENT:

ORGANIC SOLVENTS: 0.0%

SOLIDS CONTENT: 17.8%

-----10 STABILITY AND REACTIVITY -----

PERSONAL PROTECTIVE EQUIPMENT:

THERMAL DECOMPOSITION/CONDITIONS TO BE AVOIDED: NO DECOMPOSITION IF USED ACCORDING TO SPECIFICATIONS. HAZARD CLASS: 2.1 SEROUS REACTIONS: NO DANGEROUS REACTIONS KNOWN. IDENTIFICATION NUMBER: UN1950 DANGEROUS PRODUCTS OF DECOMPOSITION: PACKING GROUP: -NO DANGEROUS DECOMPOSITION PRODUCTS KNOWN. PROPER SHIPPING NAME (TECHNICAL NAME): AEROSOLS, FLAMMABLE, N.O.S., PROPANE -----11 TOXICOLOGICAL INFORMATION -----LAND TRANSPORT ADR/RID (CROSS-BORDER): ACUTE TOXICITY: FLAMMABLE GAS PRIMARY IRRITANT EFFECT: ADR/RID CLASS: 2 GASES ON THE SKIN: NO IRRITANT EFFECT. ON THE EYE: IRRITATING EFFECT. ITEM: 5 F SENSITIZATION: NO SENSITIZING EFFECTS KNOWN. DANGER CODE (KEMLER): -ADDITIONAL TOXICOLOGICAL INFORMATION: UN-NUMBER: 1950 THE PRODUCT SHOWS THE FOLLOWING DANGERS ACCORDING TO INTERNALLY APPROVED CALCULATION METHODS FOR PREPARATIONS: DESCRIPTION OF GOODS: 1950 ARROSOLS HARMFUL. IRRITANT. CARCINOGENIC. MARITIME TRANSPORT IMDG: FLAMMABLE GAS - 2 -----12 BCOLOGICAL INFORMATION -----IMDG CLASS: 2 AL NOTES: PAGE: 2102 HAZARD CLASS 2 (SELF-ASSESSMENT): HAZARDOUS FOR WATER DO NOT ALLOW PRODUCT TO REACH GROUND WATER, WATER COURSE OR SEWAGE SYSTEM. UN NUMBER: 1950 DANGER TO DRINKING WATER IF EVEN SMALL QUANTITIES LEAK INTO THE GROUND. PACKAGING GROUP: ------13 DISPOSAL CONSIDERATIONS -----EMS NUMBER: 2-13 DISPOSAL METHOD: MFAG: 620 DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT PUNCTURE, INCINERATE, OR COMPACT. EMPTY CONTAINERS MUST BE HANDLED WITH CARE MARINE POLLUTANT: NO DUE TO PRODUCT RESIDUE. DO NOT HEAT OR CUT EMPTY CONTAINERS WITH ELECTRIC OR GAS TORCHES. PROPER SHIPPING NAME: ARROSOLS PRODUCT: AIR TRANSPORT ICAO-TI AND IATA-DGR: FLAMMABLE GAS - 2 RECOMMENDATION: MUST NOT BE DISPOSED OF TOGETHER WITH HOUSEHOLD GARBAGE. DO NOT ALLOW ICAO/IATA CLASS: 2.1 PRODUCT TO REACH SEWAGE SYSTEM. UN/ID NUMBER: 1950 PACKAGING GROUP: -UNCLEANED PACKAGINGS: MENDATION: DISPOSAL MUST BE MADE ACCORDING TO OFFICIAL REGULATIONS. PROPER SHIPPING NAME: AEROSOLS, FLAMMABLE, N.O.S., PROPANE -----14 TRANSPORT INFORMATION ----------15 REGULATIONS -----

-10-

DOT REGULATIONS: FLAMMABLE GAS - 2 SECTION 355 (EXTREMELY HAZARDOUS SUBSTANCES): NONE OF THE INGREDIENT IS LISTED.

TION 313 (SPECIFIC TOXIC CHEMICAL LISTINGS):

TSCA (TOXIC SUBSTANCES CONTROL ACT): NONE OF THE INGREDIENTS IS LISTED.

PROPOSITION 65:

CHEMICALS KNOWN TO CAUSE CANCER: NONE OF THE INGREDIENTS IS LISTED.

CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY: NONE OF THE INGREDIENTS IS LISTED.

PRODUCT RELATED HAZARD INFORMATIONS:

THE PRODUCT HAS BEEN CLASSIFIED AND MARKED IN ACCORDANCE WITH DIRECTIVES ON HAZARDOUS MATERIALS.

HAZARD SYMBOLS:

TOXIC

EXTREMELY FLAMMABLE

HAZARD-DETERMINING COMPONENTS OF LABELLING: SOLVENT-NAPHTHA (PETROLEUM), LIGHT AROM.

PHRASES:

B. \_\_MELY FLAMMABLE.

HARMFUL BY INHALATION.

IRRITATING TO EYES.

SAFETY PHRASES:

AVOID EXPOSURE - OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.

KEEP LOCKED UP AND OUT OF THE REACH OF CHILDREN.

DO NOT BREATHE GAS/FUMES/VAPOUR/SPRAY.

DO NOT EMPTY INTO DRAINS, DISPOSE OF THIS MATERIAL AND ITS CONTAINER AT HAZARDOUS OR SPECIAL WASTE COLLECTION POINT

IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT.

SPECIAL LABELING OF CERTAIN PREPARATIONS:

PRESSURIZED CONTAINER: PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 DEG. C, I.B. ELECTRIC LIGHTS. DO NOT PIERCE OR BURN. EVEN AFTER USE.

CONTAINS 82.2 MASS PERCENT OF INFLAMMABLE MATERIALS.

KEEP OUT OF THE REACH OF CHILDREN.

NATIONAL REGULATIONS:

WATER HAZARD CLASS:

WATER HAZARD CLASS 2 (SELF-ASSESSMENT): HAZARDOUS FOR WATER.

-----16 OTHER INFORMATION -----

THIS INFORMATION IS BASED ON OUR PRESENT KNOWLEDGE. HOWEVER, THIS SHALL NOT CONSTITUTE A GUARANTEE FOR ANY SPECIFIC PRODUCT FEATURES AND SHALL NOT ESTABLISH A LEGALLY VALID CONTRACTUAL RELATIONSHIP.

CONTACT: CRAIG SWAFFORD

FREIGHT CODE

6MT33

When shipment is complete, retain for daily Hazmat audit.

R SHIPPING INFORMATION

STOCK # : 6MT33

MSDS # : A1153

: 0B00

DOT PROPER SHIP NAME : CONSUMER COMMODITY, ORM-D

UPS RESTRICTIONS : 20 LB. & UMDER REQUIRES 200 LB. BSC/32 ECT,

21 LB. & OVER REQUIRES 275 LB. BSC/44 ECT.

HAZARDOUS CLASS NUMBER ;

UN ID #

PACKING GROUP

SHIPPING LABEL ORM-D

LIMITED QUANTITY ł Y

CARTON INSTRUCTIONS : CAN REPACK IN GRAINGER S CARTON

EXCEPTION

DOT/UPS EXEMPTION NO. :

COMMENTS 1 : HAZARDOUS MATERIAL. DO NOT SHIP AIR!!

COMMENTS 2

SHIPPING PAPERS AUTOMATED BILL OF LADING REQUIRED FOR TRUCK SHIPMENTS.

PLACARD OFFERED ? YES ( ) NO ( ) PLEASE MARK ONE

TO ACCOMPANY SHIPMENT

is associated.

AL SAFETY DATA SHERT - A1173

Associated Grainger Items

6MT53

MATERIAL SAFETY DATA SHEET

ACC. TO ISO/DIS 11014

PRINTING DATE: 01/12/2001

REVIEWED ON: 09/19/2000

-----1 IDENTIFICATION OF SUBSTANCE -----

PRODUCT DETAKLS

TRADE NAME: LOW LUSTER BLACK

PRODUCT CODE: GROGMT5300

MANUFACTURER/SUPPLIER SEYMOUR OF SYCAMORE

917 CROSBY AVENUE

SYCAMORE, IL 60178

+1 815-895-9101

INFORMATION DEPARTMENT: HEALTH & SAFETY DEPARTMENT

EMERGENCY INFORMATION: CHEMTREC 1 800 255 3924

----2 COMPOSITION/DATA ON COMPONENTS -----

CHEMICAL CHARACTERIZATION:

DESCRIPTION:

MIXTURE OF THE SUBSTANCES LISTED BELOW WITH NONHAZARDOUS ADDITIONS.

DANGEROUS COMPONENTS: VOID

-----3 HAZARDS IDENTIFICATION -----

HAZARD DESCRIPTION:

TOXIC

MRLY FLAMMABLE

MATION PERTAINING TO PARTICULAR DANGERS FOR MAN AND ENVIRONMENT:

MAY CAUSE CANCER.

EXTREMELY FLAMMABLE.

HARMFUL BY INHALATION.

IRRITATING TO EYES.

PRESSURIZED CONTAINER:

PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 DEG. C,

CONTAINS 85.7 MASS PERCENT INFLAMMABLE MATERIALS.

KEEP OUT OF THE REACH OF CHILDREN.

CLASSIFICATION SYSTEM:

THE CLASSIFICATION WAS MADE ACCORDING TO THE LATEST EDITIONS OF

INTERNATIONAL SUBSTANCES LISTS, AND EXPANDED UPON FROM COMPANY AND

LITERATURE DATA.

NFPA RATINGS (SCALE 0 - 4)

HEALTH = 1

FIRE

REACTIVITY = 3

HMIS - RATINGS (SCALE 0 - 4)

HEALTH **=** 1

FIRE **= 3** 

REACTIVITY = 3

-----4 FIRST AID MEASURES -----

GENERAL INFORMATION:

SYMPTOMS OF POISONING MAY EVEN OCCUR AFTER SEVERAL HOURS; THEREFORE MEDICAL

OBSERVATION FOR AT LEAST 48 HOURS AFTER THE ACCIDENT.

AFTER INHALATION:

SUPPLY FRESH AIR. IF REQUIRED, PROVIDE ARTIFICIAL RESPIRATION. KEEP PATIENT

WARM. CONSULT DOCTOR IF SYMPTOMS PERSIST.

IN CASE OF UNCONSCIOUSNESS PLACE PATIENT STABLY IN SIDE POSITION FOR

TRANSPORTATION.

AFTER SKIN CONTACT:

IMMEDIATELY RINSE WITH WATER.

RINSE OPENED BYE FOR SEVERAL MINUTES UNDER RUNNING WATER. IF SYMPTOMS

PERSIST, CONSULT A DOCTOR.

AFTER SWALLOWING:

IF SYMPTOMS PERSIST CONSULT DOCTOR.

-----5 FIRE FIGHTING MEASURES -----

SUITABLE EXTINGUISHING AGENTS:

CO2, SAND, EXTINGUISHING POWDER. DO NOT USE WATER.

FOR SAFETY REASONS UNSUITABLE EXTINGUISHING AGENTS:

WATER WITH FULL JET

PROTECTIVE EQUIPMENT:

MOUNT RESPIRATORY PROTECTIVE DEVICE.

---6 ACCIDENTAL RELEASE MEASURES -----

PER. - RELATED SAFETY PRECAUTIONS:

WEAR PROTECTIVE EQUIPMENT, KEEP UNPROTECTED PERSONS AWAY.

MEASURES FOR ENVIRONMENTAL PROTECTION:

DO NOT ALLOW PRODUCT TO REACH SEWAGE SYSTEM OR ANY WATER COURSE.

INFORM RESPECTIVE AUTHORITIES IN CASE OF SEEPAGE INTO WATER COURSE OR SEWAGE SYSTEM.

DO NOT ALLOW TO ENTER SEWERS/SURFACE OR GROUND WATER.

MEASURES FOR CLEANING/COLLECTING:

DISPOSE CONTAMINATED MATERIAL AS WASTE ACCORDING TO ITEM 13.

ENSURE ADEQUATE VENTILATION.

DO NOT FLUSH WITH WATER OR AQUBOUS CLEANSING AGENTS.

----- HANDLING AND STORAGE -----

HANDLING:

INFORMATION FOR SAFE HANDLING:

ENSURE GOOD VENTILATION/EXHAUSTION AT THE WORKPLACE.

OPEN AND HANDLE RECEPTACLE WITH CARE.

INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES:

KEEP IGNITION SOURCES AWAY - DO NOT SMOKE.

ECT AGAINST BLECTROSTATIC CHARGES.

-ESPIRATORY PROTECTIVE DEVICE AVAILABLE.

PRESSURIZED CONTAINER:

PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCERDING 50 DEG. C,

I.E. BLECTRIC LIGHTS. DO NOT PIERCE OR BURN, EVEN AFTER USE.

DO NOT SPRAY ON A NAKED FLAME OR ANY INCANDESCENT MATERIAL.

STORAGE:

REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES:

STORE IN A COOL LOCATION.

OBSERVE OFFICIAL REGULATIONS ON STORING PACKAGINGS WITH PRESSURIZED

CONTAINERS.

INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY:

NOT REQUIRED.

FURTHER INFORMATION ABOUT STORAGE CONDITIONS:

KEEP RECEPTACLE TIGHTLY SEALED.

DO NOT GAS TIGHT SHAL RECEPTACLE.

STORE IN COOL, DRY CONDITIONS IN WELL SEALED RECEPTACLES.

PROTECT FROM HEAT AND DIRECT SUNLIGHT.

-8 EXPOSURE CONTROLS AND PERSONAL PROTECTION -----

i conal information about design of technical systems:

NO FURTHER DATA; SEE ITEM 7.

COMPONENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE:
THE PRODUCT DOES NOT CONTAIN ANY RELEVANT QUANTITIES OF MATERIALS WITH

CRITICAL VALUES THAT HAVE TO BE MONITORED AT THE WORKPLACE.

ADDITIONAL INFORMATION:

THE LISTS THAT WERE VALID DURING THE CREATION WERE USED AS BASIS.

PERSONAL PROTECTIVE EQUIPMENT:

GENERAL PROTECTIVE AND HYGIENIC MEASURES:

KEBP AWAY FROM FOODSTUFFS, BEVERAGES AND FEED.

IMMEDIATELY REMOVE ALL SOILED AND CONTAMINATED CLOTHING.

WASH HANDS BEFORE BREAKS AND AT THE END OF WORK.

STORE PROTECTIVE CLOTHING SEPARATELY.

AVOID CONTACT WITH THE EYES.

AVOID CONTACT WITH THE EYES AND SKIN.

BREATHING EQUIPMENT:

IN CASE OF BRIEF EXPOSURE OR LOW POLLUTION USE RESPIRATORY FILTER DEVICE. IN CASE OF INTENSIVE OR LONGER EXPOSURE USE RESPIRATORY PROTECTIVE DEVICE THAT IS INDEPENDENT OF CIRCULATING AIR.

PROTECTION OF HANDS:

PROTECTIVE GLOVES

RYR PROTECTION:

TIGHTLY SEALED GOGGLES

-----9 PHYSICAL AND CHEMICAL PROPERTIES -----

FORM:

COLOR:

ACCORDING TO PRODUCT SPECIFICATION

ODOR:

CHARACTERISTIC

CHANGE IN CONDITION

MELTING POINT/MELTING RANGE: UNDETERMINED.

BOILING POINT/BOILING RANGE: -44 DEG. C (-47 DEG. F)

FLASH POINT:

-19 DEG. C (-2 DEG. F)

IGNITION TEMPERATURE:

365.0 DBG. C (689 DBG. F)

AUTO IGNITING:

PRODUCT IS NOT SELF IGNITING.

DANGER OF EXPLOSION:

PRESSURIZED CONTAINER: PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 DEG. C, I.E., BLECTRIC LIGHTS. DO NOT PIERCE OR BURN, EVEN AFTER USE.

EXPLOSION LIMITS: LOWER: 1.7 VOL. %

UPPER: 13.0 VOL %

VAPOR PRESSURE AT 20 DEG. C (68 DEG. F): 0.0 HPA EA. Y: NOT DETERMINED. SOLUBILITY IN /MISCIBILITY WITH WATER: NOT MISCIBLE OR DIFFICULT TO MIX. SOLVENT CONTENT: ORGANIC SOLVENTS: 0.0 % SOLIDS CONTENT: 14.3% -----10 STABILITY AND REACTIVITY -----THERMAL DECOMPOSITION/CONDITIONS TO BE AVOIDED: NO DECOMPOSITION IF USED ACCORDING TO SPECIFICATIONS. DANGEROUS REACTIONS: NO DANGEROUS REACTIONS KNOWN. DANGEROUS PRODUCTS OF DECOMPOSITION: NO DANGEROUS DECOMPOSITION PRODUCTS KNOWN. -11 TOXICOLOGICAL INFORMATION -----ACUTE TOXICITY: PRIMARY IRRITANT EFFECT: ON THE SKIN: NO IRRITANT EFFECT. ON THE EYE: IRRITATING EFFECT. SENSITIZATION: NO SENSITIZING EFFECTS KNOWN. ADDITIONAL TOXICOLOGICAL INFORMATION: THE PRODUCT SHOWS THE FOLLOWING DANGERS ACCORDING TO INTERNALLY APPROVED CALCULATION METHODS FOR PREPARATIONS: HARMFUL. IRRITANT. CARCINOGENIC. -----12 ECOLOGICAL INFORMATION -----GENERAL NOTES: WATER HAZARD CLASS 2 (SELF-ASSESSMENT): HAZARDOUS FOR WATER OT ALLOW PRODUCT TO REACH GROUND WATER, WATER COURSE OR SEWAGE SYSTEM.

R TO DRINKING WATER IF EVEN SMALL QUANTITIES LEAK INTO THE GROUND.

-----13 DISPOSAL CONSIDERATIONS -----

DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT PUNCTURE, INCINERATE, OR COMPACT. EMPTY CONTAINERS MUST BE HANDLED WITH CARE DUE TO PRODUCT RESIDUE. DO NOT HEAT OR CUT EMPTY CONTAINERS WITH ELECTRIC OR GAS TORCHES. PRODUCT: RECOMMENDATION: MUST NOT BE DISPOSED OF TOGETHER WITH HOUSEHOLD GARBAGE. DO NOT ALLOW PRODUCT TO REACH SEWAGE SYSTEM. UNCLEANED PACKAGINGS: RECOMMENDATION: DISPOSAL MUST BE MADE ACCORDING TO OFFICIAL REGULATIONS. -----14 TRANSPORT INFORMATION -----DOT REGULATIONS: FLAMMABLE GAS. CLASS/DIVISION 2.1 HAZARD CLASS: 2.1 IDENTIFICATION NUMBER: UN1950 PACKING GROUP: PROPER SHIPPING NAME (TECHNICAL NAME): AEROSOLS, FLAMMABLE, N.O.S. PROPANE LAND TRANSPORT ADR/RID (CROSS-BORDER): CLASS 2 FLAMMABLE GASES ADR/RID CLASS: 2 GASES ITEM: 5 F DANGER CODE (KEMLER): -UN-NUMBER: 1950 DESCRIPTION OF GOODS: 1950 AEROSOLS MARITIME TRANSPORT IMDG: FLAMMABLE GAS CLASS/DIVISION 2 TMDG CLASS: 2 UN NUMBER: 1950 PACKAGING GROUP: EMS NUMBER: 2-13 620 MARINE POLLUTANT: NO PROPER SHIPPING NAME: AEROSOLS AIR TRANSPORT ICAO-TI AND IATA-DGR: FLAMMABLE GAS CLASS/DIVISION 2.1 ICAO/IATA CLASS: 2.1 UN/ID NUMBER:

- 15-

PACKAGING GROUP:

PROPER SHIPPING NAME: AEROSOLS, FLAMMABLE, N.O.S., PROPANE



Y 355 (EXTREMELY HAZARDOUS SUBSTANCES):

of THE INGREDIENT IS LISTED.

SECTION 313 (SPECIFIC TOXIC CHEMICAL LISTINGS):

NONE OF THE INGREDIENTS IS LISTED.

TSCA (TOXIC SUBSTANCES CONTROL ACT):

NONE OF THE INGREDIENTS IS LISTED.

PROPOSITION 65

CHEMICALS KNOWN TO CAUSE CANCER:

NONE OF THE INGREDIENTS IS LISTED.

CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY:

NONE OF THE INGREDIENTS IS LISTED.

PRODUCT RELATED HAZARD INFORMATIONS:

THE PRODUCT HAS BEEN CLASSIFIED AND MARKED IN ACCORDANCE WITH DIRECTIVES ON

HAZARDOUS MATERIALS.

HAZARD SYMBOLS:

TOXIC

EXTREMELY FLAMMABLE

RO-DETERMINING COMPONENTS OF LABBLING:
T NAPHTHA (PETROLEUM), LIGHT AROM.

RISK PHRASES:

MAY CAUSE CANCER.

EXTREMELY FLAMMABLE.

HARMFUL BY INHALATION.

IRRITATING TO EYES.

SAFRTY PHRASES:

AVOID EXPOSURE - OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.

KEEP LOCKED UP AND OUT OF THE REACH OF CHILDREN.

DO NOT BREATHE GAS/FUMES/VAPOUR/SPRAY.

DO NOT EMPTY INTO DRAINS, DISPOSE OF THIS MATERIAL AND ITS CONTAINER AT

HAZARDOUS OR SPECIAL WASTE COLLECTION POINT

IN CASE OF INSUPPICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT.

SPECIAL LABBLING OF CERTAIN PREPARATIONS:

PRESSURIZED CONTAINER: PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO

TEMPERATURES EXCEEDING 50 DEG. C, I.E. BLECTRIC LIGHTS. DO NOT PIERCE OR

BURN, EVEN AFTER USE.

CONTAINS 85.7 MASS PERCENT INFLAMMABLE MATERIALS.

KEEP OUT OF THE REACH OF CHILDREN.

NATIONAL REGULATIONS:

WATER HAZARD CLASS:

WATER HAZARD CLASS 2 (SELF-ASSESSMENT): HAZARDOUS FOR WATER.

-----16 OTHER INFORMATION -----

THIS INFORMATION IS BASED ON OUR PRESENT KNOWLEDGE. HOWEVER, THIS SHALL NOT CONSTITUTE A GUARANTEE FOR ANY SPECIFIC PRODUCT FEATURES AND SHALL NOT ESTABLISH A LEGALLY VALID CONTRACTUAL RELATIONSHIP.

CONTACT: CRAIG SWAFFORD

USA

PREIGHT CODE

When shipment is complete, retain for daily Hazmat audit.

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∠R SHIPPING INFORMATION

STOCK # : 6MT53 MEDS # : A1173

: 0800 DOT PROPER SHIP NAME : CONSUMER COMMODITY, ORM-D

UPS RESTRICTIONS : 20 LB. & UNDER REQUIRES 200 LB. BSC/32 ECT,

21 LB. & OVER REQUIRES 275 LB. BSC/44 ECT.

HAZARDOUS CLASS NUMBER :

UN ID #

PACKING GROUP

SHIPPING LABEL : ORM-D

LIMITED QUANTITY : Y

CARTON INSTRUCTIONS : CAN REPACK IN GRAINGER S CARTON

EXCEPTION

DOT/UPS EXEMPTION NO. :

COMMENTS 1 : HAZARDOUS MATERIAL. DO NOT SHIP AIR!!

COMMENTS 2

SHIPPING PAPERS : AUTOMATED BILL OF LADING REQUIRED FOR TRUCK SHIPMENTS.

PLACARD OFFERED ? YES ( ) NO ( ) PLEASE MARK ONE

TO ACCOMPANY SHIPMENT

# MATERIAL SAFETY DATA SHEET ACC. TO ISO/DIS 11014



PRODUCT DETAILS:

TRADE NAME: RED PRIMER

PRODUCT CORE: GROGMPP800

WANUFACTURER/SUPPLIER: SEYMOUR OF COMMENTS.

11/26/02

MANUFACTURER/SUPPLIER: SEYMOUR OF SYCAMORE
917 CROSBY AVENUE
SYCAMORE, IL 60178
+1 815-895-9101

S(R+)

INFORMATION DEPARTMENT: HEALTH & SAFETY DEPARTMENT

EMERGENCY INFORMATION: CHEMTREC 1 800 255 3924

-----2 COMPOSITION/DATA ON COMPONENTS -----

CHEMICAL CHARACTERIZATION:

DANGEROUS COMPONENTS: VOID

-----3 HAZARDS IDENTIFICATION -----

HAZARD DESCRIPTION:

TOXIC

EXTREMELY FLAMMABLE

INFORMATION PERTAINING TO PARTICULAR DANGERS FOR MAN AND ENVIRONMENT:

MAY CAUSE CANCER.

EXTREMELY FLAXMABLE.

HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.

IRRITATING TO EYES

PRESSURIZED CONTAINER: PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 DEG. C, I.E. ELECTRIC LIGHTS. DO NOT PIERCE OR BURN, EVEN AFTER USE.

CONTAINS 78.4 MASS PERCENT INFLAMMABLE MATERIALS.

KEEP OUT OF THE REACE OF CHILDREN.

CLASSIFICATION SYSTEM:

THE CLASSIFICATION WAS MADE ACCORDING TO THE LATEST EDITIONS OF INTERNATIONAL SUBSTANCES LISTS, AND EXPANDED UPON FROM COMPANY AND LITERATURE DATA.

RATINGS (SCALE 0 - 4)

HEALTH = 1

rire = 4

REACTIVITY = 3

18-

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HMIS-RATINGS (SCALE 0 - 4)
HRALTH
          u 1
FIRE
           - 3
REAFTIVITY = 3
----4 FIRST AID MEASURES -----
GENERAL INFORMATION:
SYMPTOMS OF POISONING MAY EVEN OCCUR AFTER SEVERAL HOURS, THEREFORE MEDICAL
OBSERVATION FOR AT LEAST 48 HOURS AFTER THE ACCIDENT.
APTER INHALATION:
SUPPLY FRESH AIR. IF REQUIRED, PROVIDE ARTIFICIAL RESPIRATION, KEEP PATIENT
WARM, CONSULT DOCTOR IF SYMPTOMS PERSIST.
IN CASE OF UNCONSCIOUSNESS PLACE PATIENT STABLY IN SIDE POSITION FOR
TRANSPORTATION.
APTER SKIN CONTACT: IMMEDIATELY RINSE WITH WATER.
AFTER EYE CONTACT:
PINGE OPENED BYE FOR SEVERAL MINUTES UNDER RUNNING WATER. IF SYMPTOMS
PERSIST, CONSULT A DOCTOR.
AFTER SWALLOWING: IF SYMPTOMS PERSIST CONSULT DOCTOR.
----- FIRE FIGHTING MEASURES -----
SUITABLE EXTINGUISHING AGENTS:
CO2, SAND, EXTINGUISHING POWDER. DO NOT USE WATER.
FOR SAFETY REASONS UNSUITABLE EXTINGUISHING AGENTS:
      WITH FULL JET
PROTECTIVE EQUIPMENT: MOUNT RESPIRATORY PROTECTIVE DEVICE.
-----6 ACCIDENTAL RELEASE MEASURES -----
PERSON-RELATED SAFETY PRECAUTIONS:
WEAR PROTECTIVE EQUIPMENT. KEEP UNPROTECTED PERSONS AWAY.
MEASURES FOR ENVIRONMENTAL PROTECTION:
DO NOT ALLOW PRODUCT TO REACH SEWAGE SYSTEM OR ANY WATER COURSE.
INFORM RESPECTIVE AUTHORITIES IN CASE OF SEEPAGE INTO WATER COURSE OR SEWAGE
DO NOT ALLOW TO ENTER SEWERS/SURFACE OR GROUND WATER.
MEASURES FOR CLEANING/COLLECTING:
DISPOSE CONTAMINATED MATERIAL AS WASTE ACCORDING TO ITEM 13.
ENSURE ADEQUATE VENTILATION.
DO NOT PLUSE WITH WATER OR AQUEOUS CLEANSING AGENTS
----- HANDLING AND STORAGE
HANDLING:
INFORMATION FOR SAFE HANDLING:
ENGINE GOOD VENTILATION/EXEAUSTION AT THE WORKPLACE.
         HANDLE RECEPTACLE WITH CARE.
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INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND PIRES:

REEP IGNITION SOURCES AWAY - DO NOT SMOKE.

PROTECT AGAINST ELECTROSTATIC CRARGES.

REEP RESPIRATORY PROTECTIVE DEVICE AVAILABLE.

-19 -

PRESSURIZED CONTAINER: PROTECT FROM SUBLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 DEG. C, I.B. ELECTRIC LIGHTS. DO NOT PIERCE OR BURN, EVEN AFTER USE.

O POT SPRAY ON A MAKED FLAME OR ANY INCANDESCENT MATERIAL.

STORAGE:

REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES:

STORE IN A COOL LOCATION.

OBSERVE OFFICIAL REGULATIONS ON STORING PACKAGINGS WITE PRESSURIZED

INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY: NOT REQUIRED.

FURTHER INFORMATION ABOUT STORAGE CONDITIONS:

KEEP RECEPTACLE TIGHTLY SEALED.

DO NOT GAS TIGHT SEAL RECEPTACLE.

STORE IN COOL, DRY CONDITIONS IN WELL SEALED RECEPTACLES.

PROTECT FROM HEAT AND DIRECT SUNLIGHT.

----- EXPOSURE CONTROLS AND PERSONAL PROTECTION -----

ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL SYSTEMS:
NO FURTHER DATA; SEE ITEM 7.

COMPONENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE: THE PRODUCT DOES NOT CONTAIN ANY RELEVANT QUANTITIES OF NATERIALS WITH CRITICAL VALUES THAT HAVE TO BE MONITORED AT THE WORKPLACE.

ADDITIONAL INFORMATION:

THE LISTS THAT WERE VALID DURING THE CREATION WERE USED AS BASIS.

DECIONAL DECEMENT

PERSONAL PROTECTIVE EQUIPMENT:

GENERAL PROTECTIVE AND HYGIENIC MEASURES:

KEEP AWAY FROM FOODSTUFFS, BEVERAGES AND FEED.

IMMEDIATELY REMOVE ALL SOILED AND CONTAMINATED CLOTHING.

WASH HANDS BEFORE BREAKS AND AT THE END OF WORK.

STORE PROTECTIVE CLOTHING SEPARATELY.

AVOID CONTACT WITH THE EYES.

AVOID CONTACT WITH THE EYES AND SKIN.

BREATHING EQUIPMENT:

IN CASE OF BRIEF EXPOSURE OR LOW POLLUTION USE RESPIRATORY FILTER DEVICE. IN CASE OF INTENSIVE OR LONGER EXPOSURE USE RESPIRATORY PROTECTIVE DEVICE THAT IS INDEPENDENT OF CIRCULATING AIR.

PROTECTION OF HANDS: PROTECTIVE GLOVES

EYE PROTECTION: TIGHTLY SEALED GOGGLES

----- PHYSICAL AND CHEMICAL PROPERTIES -----

FORM: AEROSOL

COLOR: ACCORDING TO PRODUCT SPECIFICATION

CHARACTERISTIC

IN CONDITION:

MELTING POINT/MELTING RANGE: UNDETERMINED BOILING POINT/BOILING RANGE: -44 DEG. C (-47 DEG. F)

FLASH POINT: -19 DEG. C (-2 DEG. P)

-20-

AUTO TONITING: PRODUCT IS NOT SELFIGNITING. GER OF EXPLOSION: PRESSURIZED CONTAINER: PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 DEG. C, I.E. ELECTRIC LIGHTS. DO NOT PIERCE OR BURN, EVEN AFTER USE. EXPLOSION LIMITS: LOWER: 1.1 VOL % UPPER: 13.0 VOL % VAPOR PRESSURE AT 20 DEG. C (68 DEG. F): 8300.0 HPA DENGITY: NOT DETERMINED. SOLUBILITY IN/MISCIBILITY WITH WATER: NOT MISCIBLE OR DIFFICULT TO MIX. SOLVENT CONTENT: ORGANIC SOLVENTS: 0.0% SOLIDS CONTENT: 21.2% -----10 STABILITY AND REACTIVITY -----THERMAL DECOMPOSITION/CONDITIONS TO BE AVOIDED: NO DECOMPOSITION IF USED ACCORDING TO SPECIFICATIONS. DANGEROUS REACTIONS: NO DANGEROUS REACTIONS KNOWN. US PRODUCTS OF DECOMPOSITION: NGEROUS DECOMPOSITION PRODUCTS KNOWN. -----11 TOXICOLOGICAL INFORMATION -----ACUTE TOXICITY: PRIMARY IRRITANT EFFECT: ON THE SKIN: NO IRRITANT EFFECT. ON THE EYE: IRRITATING EFFECT. SENSITIZATION: NO SENSITIZING EFFECTS KNOWN. ADDITIONAL TOXICOLOGICAL INFORMATION: THE PRODUCT SHOWS THE POLLOWING DANGERS ACCORDING TO INTERNALLY APPROVED CALCULATION METHODS FOR PREPARATIONS: HARMFUL. IRRITANT. CARCINOGENIC. -----12 ECOLOGICAL INFORMATION -----GENERAL NOTES: WATER HAZARD CLASS 2 (SELF-ASSESSMENT): HAZARDOUS FOR WATER DO NOT ALLOW PRODUCT TO REACH GROUND WATER, WATER COURSE OR SEWAGE SYSTEM. DANGER TO DRINKING WATER IF EVEN SMALL QUANTITIES LEAK INTO THE GROUND. 13 DISPOSAL CONSIDERATIONS -----

DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT PUNCTURE, INCINERATE, OR COMPACT. EMPTY CONTAINERS MUST BE HANDLED WITH CARE

DUE TO PRODUCT RESIDUE. DO NOT HEAT OR CUT EMPTY CONTAINERS WITH ELECTRIC OR GAS TORCHES.

RECOMMENDATION

MUST NOT BE DISPOSED OF TOGETHER WITE HOUSEHOLD GARBAGE. DO NOT ALLOW PRODUCT TO REACH SEMAGE SYSTEM.

UNCLEANED PACKAGINGS:

RECOMMENDATION: DISPOSAL MUST BE MADE ACCORDING TO OFFICIAL REGULATIONS.

-----14 TRANSPORT INFORMATION -----

DOT REGULATIONS:

PLANMABLE GAS - 2

HAZARD CLASS: 2.1

IDENTIFICATION NUMBER: UN1950

PACKING GROUP: -

PROPER SHIPPING NAME (TECHNICAL NAME):

AEROSOLS, FLAMMABLE, N.O.S., CONTAINING SUBSTANCES IN DIVISION 6.1, PACKING GROUP I OR II, PROPANE

LAND TRANSPORT ADR/RID (CROSS-BORDER):



OL - FLAMMABLE GAS)

ADR/RID CLASS: 2 GASES

ITEM: 5 TP

DANGER CODE (KEMLER): -

UN-NUMBER: 1950

DESCRIPTION OF GOODS: 1950 AEROSOLS

MARITIME TRANSPORT INDG:

(SYMBOL - TOXIC GAS - 6)

(SYMBOL - FLANMABLE GAS)

IMDG CLASS: 2

PAGE: 2102

UN NUMBER: 1950

PACKAGING GROUP: -

EMS NUMBER: 2-13



PROPER SHIPPING NAME: AEROSOLS

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AIR TRANSPORT ICAO-TI AND IATA-DGR: (SYMBOL - FLANDABLE GAS - 2) ICAO/TATA CLASS: 2.1 TO NUMBER: 1950 PACKAGING GROUP: -PROPER SHIPPING NAME: AEROSOLS, FLAMMABLE, N.O.S. CONTAINING SUBSTANCES IN DIVISION 6.1, PACKING GROUP I OR II, PROPANE -----15 REGULATIONS -----SECTION 355 (EXTREMELY HAZARDOUS SUBSTANCES): NONE OF THE INGREDIENT IS LISTED. SECTION 313 (SPECIFIC TOXIC CHEMICAL LISTINGS): NONE OF THE INGREDIENTS IS LISTED. TSCA (TOXIC SUBSTANCES CONTROL ACT): NONE OF THE INGREDIENTS IS LISTED. PROPOSITION 65: CHEMICALS KNOWN TO CAUSE CANCER: NONE OF THE INGREDIENTS IS LISTED. CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY: NONE OF THE INGREDIENTS IS LISTED. PRODUCT RELATED HAZARD INFORMATIONS: THE PRODUCT HAS BEEN CLASSIFIED AND MARKED IN ACCORDANCE WITH DIRECTIVES ON HAZARDOUS MATERIALS. HAZARD SYMBOLS: TOXIC EXTREMELY FLAMMABLE HAZARD-DETERMINING COMPONENTS OF LABELLING: SOLVENT-NAPHTHA (PETROLEUM), LIGHT AROM. XYLENE (MIX) RISK PHRASES: MAY CATISE CANCER. EXTREMELY FLAMMABLE. HARMFUL BY INHALATION AND IN CONTACT WITH SKIN. IRRITATING TO EYES. SAPETY PHRASES: AVOID EXPOSURE - OBTAIN SPECIAL INSTRUCTIONS BEFORE USE. KEEP LOCKED UP AND OUT OF THE REACH OF CHILDREN. DO NOT BREATHE GAS/FUMES/VAPOUR/SPRAY. DO NOT EMPTY INTO DRAINS, DISPOSE OF THIS MATERIAL AND ITS CONTAINER AT HAZARDOUS OR SPECIAL WASTE COLLECTION POINT WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES. IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT. LABELING OF CERTAIN PREPARATIONS: RIZED CONTAINER: PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO

TEMPERATURES EXCEEDING 50 DEG. C, I.E. ELECTRIC LIGHTS. DO NOT PIERCE OR

CONTAINS 78.4 WASS PERCENT OF INFLAMMABLE MATERIALS.

BURN, EVEN AFTER USE.

KEEP OUT OF THE REACH OF CHILDREN.

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#### NATIONAL REGULATIONS:

ZARD CLASS:

An HAZARD CLASS 2 (SELF-ASSESSMENT): HAZARDOUS FOR WATER.

-----16 OTHER INFORMATION -----

THIS INFORMATION IS BASED ON OUR PRESENT KNOWLEDGE. HOWEVER, TEIS SHALL NOT CONSTITUTE A GUARANTEE FOR ANY SPECIFIC PRODUCT FEATURES AND SHALL NOT ESTABLISH A LEGALLY VALID CONTRACTUAL RELATIONSHIP.

CONTACT: CRAIG SWAFFORD

24

## ORDER: 10425702662XE42 - Paint Remover/Stripper Semi-Pastezmat: 2XE42

#### HAZARD MATERIAL WARNING SHEET (HAZMAT)

# When shipment is complete, retain for daily Hazmat audit

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GRAINGER SHIPPING INFORMATION STOCK # : 2XE42

MSDS # : A8447, B1005

FREIGHT CODE : 0800

DOT PROPER SHIP NAME : CONSUMER COMMODITY, ORM-D

UPS RESTRICTIONS

HAZARDOUS CLASS NUMBER : ORM-D

UN ID #

PACKING GROUP :

SHIPPING LABEL : Consumer Commodity ORM-D

LIMITED QUANTITY : YES

CARTON INSTRUCTIONS : CAN REPACK IN GRAINGER S CARTON

DOT/UPS EXEMPTION NO. :

COMMENTS : HAZARDOUS MATERIAL. DO NOT SHIP AIR!!

SHIPPING-PAPERS :

PLACARD OFFERED ? YES ( ) NO ( ) PLEASE MARK ONE

### ITEM: 2XE42 - Paint Remover/Stripper Semi-Paste

PICK REQ: 1042570260

#### MATERIAL SAFETY DATA SHEET (MSDS)

MSDS: B1005 SKIN CONTACT:
WASH CONTANTINATED AREAS WITH PLENTY OF SOAP AND WATER. REMOVE CONTANTINATED
CLOTHINS AND FOOTWEAR AND WASH CLOTHINS BEFORE REUSE. DISCARD FOOTWEAR,
WHICH CANNOT BE DECONTANTINATED. SEEK MEDICAL ATTENTION IF SYMPTOMS PERSIST. INGESTION:
IF SWALLOWED CONTACT A PHYSICIAN, POISON CONTROL CENTER, OR HOSPITAL
EMERGENCY ROOM. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL
PERSONNEL. THIS MATERIAL MAY POSE AN ASPIRATION HAZARD. ASPIRATION OF THIS
MATERIAL INTO THE LINGS MAY CAUSE CHEMICAL PNEUMONITIS, WHICH MAY BE FATAL.
IF SPONTANEOUS VOMITING OCCURS, MONITOR BREATHING FOR DIFFICULTY. TREAT
SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION. IF THE PATIENT IS
CONSCIOUS, WASH OUT MOUTH WITH WATER AND GIVE 200 -300 ML (HALF A PINT) OF
WATER TO DRINK. INHALATION:
REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, HAVE TRAINED PERSON
ADMINISTER OXYGEN. IF BREATHING HAS STOPPED, GIVE MOUTH-TO-MOUTH
RESUSCITATION. GET IMMEDIATE MEDICAL ATTENTION. - SECTION 5 FIRE FIGHTING MEASURES -FLASH POINT (METHOD): NO FLASH (UP TO B.P.). EXTINGUISHING MEDIA: FOAM, DRY CHEMICAL, WATER FOG, CO2 PROTECTION OF FIREFIGHTERS: AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS IN PRESSURE DEMAND MODE AND FULL PROTECTIVE GEAR. SECTION 6 ACCIDENTAL RELEASE MEASURES -CTEAN UP METHODS: CLEAN UP METHODS:
FILUSH SPILLED MATERIAL INTO SUITABLE RETAINING AREAS OR CONTAINERS WITH
LARGE QUANTITIES OF WATER OR CAN BE TAKEN ON SAND, EARTH, CLAY, FLOOR
ABSORBENT AND SHOVELED INTO CONTAINERS FOR DISPOSAL, WEAR PROTECTIVE
CLOTHES AND SELF-BREATHING APPARATUS. PREVENT RUNOFF TO SEWERS, STREAMS OR
OTHER BODIES OF WATER. AVOID SPARKS OR OTHER FLAME TO PREVENT THERMAL
DECOMPOSITION.

Associated Grainger Item: 2XE42 - Paint Remover/Stripper Semi\_Paste MATERIAL SAFETY DATA SHEET - SECTION 1 GENERAL INFORMATION -

MANUFACTURER: ZINSSER COMPANY, II 173 BELMONT DRIVE SOMERSET, NJ 08875 (732) 469-8100

EMERGENCY TELEPHONE: CHEMTREC: (800) 424-9300

DATE: DECEMBER 1, 2006

PRODUCT NAME: PARKS POWER STRIPPER

 SECTION 2 HAZARDOUS INCREDIENTS -HAZARDOUS COMPONENT ACGIH TLV OSHA PEL METHYLENE CHLORIDE (DICHLORO METHANE) 75-09-2 25 PPM 50 PPM 125 PPM (STEL) DIPROPYLENE GLYCOL-METHYL ETHER (GLYCOL ETHER) 34590-94-8 100 PPM 150 PPM (STEL) 100 PPM TOLUENE (TOLUOL) 108-88-3 200 PPM 300 PPM (C) 50 PPM METHANOL (METHYL ALCOHOL) 67-56-1 200 PPM 200 PPM 250 PPM (STEL) MINERAL SPIRITS (PAINT THINNER) 100 PPM 64741-41-9 100 PPM

L ALCOHOL

CEILING VALUE

64-17-5 1000 PPM 1000 PPM

- SECTION 3 HAZARD IDENTIFICATION -

THIS PRODUCT IS A NONFLAMMABLE CLOUDY WHITE LIQUID WITH A CHLORINATED SOLVENT TYPE ODOR.

PRIMARY ROUTES OF EXPOSURE: SKIN CONTACT
EYE CONTACT INHALATION

POTENTIAL ACUTE HEALTH EFFECTS:

EYE:
EXPOSURE MAY CAUSE EYE IRRITATION. SYMPTOMS MAY INCLUDE STINGING, TEARING, AND REDNESS.

EXPOSURE TO SKIN MAY CAUSE SKIN IRRITATION OR A BURNING SENSATION.
PROLONCED OR REPEATED CONTACT MAY CAUSE SKIN TO BECOME REDDENED, ROUGH AND DRY DUE TO THE REMOVAL OF NATURAL OILS AND MAY RESULT IN DERMATITIS.

INGESTION:
SWALLOWING THIS MATERIAL MAY CAUSE CASTROINTESTINAL IRRITATION (NAUSEA, VOMITING, AND DIARRHEA) AND CENTRAL NERVOUS SYSTEM DEPRESSION (DIZZINESS, DROWSINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, UNCONSCIOUSNESS). MAY CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT WITH VOMITING. THIS MATERIAL MAY POSE AN ASPIRATION HAZARD. ASPIRATION OF THIS MATERIAL INTO THE LINGS MAY CAUSE CHEMICAL PNEUMONITIS, WHICH MAY BE FATAL.

INHALATION:

EXCESSIVE INHALATION MAY PRODUCE SYMPTOMS OF CENTRAL NERVOUS SYSTEM DEPRESSION, RANGING FROM LIGHT HEADEDNESS, NAUSEA AND VOMITING TO UNCONSCIOUSNESS AND DEATH. INHALATION MAY CAUSE RESPIRATORY IRRITATION AND TRANSIENT PULMONARY EDDRA. EXCESSIVE INHALATION OR INSESTION MAY PRODUCE SYMPTOMS OF CENTRAL NERVOUS SYSTEM DEPRESSION RANGING FROM LIGHT-HEADEDNESS TO UNCONSCIOUSNESS AND DEATH. CAN CAUSE HEADACHE, MENTAL CONFUSION, DEPRESSION, FATIGUE, LOSS OF APPETITE, NAUSEA, VOMITING, COUCH, LOSS OF SENSE OF BALANCE, VISUAL DISTURBANCES AND CITIER CENTRAL NERVOUS SYSTEM EFFFECTS. PERSONS WITH ANSIDA OR OTHER CARDIOVASCULAR DISEASES SHOULD NOT BE EXPOSED TO THIS PRODUCT

POTENTIAL CHRONIC HEALTH EFFECTS:

S AND SYMPTOMS: PAUSE HEADACHE, MENTAL CONFUSION, DEPRESSION, FATIGUE, LOSS OF ITTE, NAUSEA, VOMITIDIS, COUGH, LOSS OF SENSE OF BALANCE AND VISUAL PREANCES. PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE DERMATITIS.

ALSO SECTIONS 4, 8, AND 11 FOR RELATED INFORMATION)

- SECTION 4 FIRST AID MEASURES -

EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES

HANDLING:
DO NOT USE PRESSURE TO EMPTY CONTAINERS, WASH THOROUGHLY AFTER HANDLING, DO
NOT GET IN EYES, ON SKIN OR ON CLOTHING, CONTAINERS, EVEN THOSE THAT HAVE
BEEN EMPTIED; WILL RETAIN PRODUCT RESIDUE AND VAPORS, ALWAYS OBEY HAZARD
WARNINGS AND HANDLE EMPTY CONTAINERS AS IF THEY WERE FULL, VAPORS OF THIS
PRODUCT ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW PLACES, SUCH AS PITS
OR DEGREASERS OR OTHER POORLY VENTILATED AREAS. DO NOT ENTER PLACES WHERE
VAPORS ARE SUSPECTED UNLESS SPECIAL RESPIRATOR PROTECTION IS WORN AND AN
OBSERVER IS PRESENT.

(SEE ALSO SECTION 8 FOR INFORMATION ON EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT)

- SECTION 7 HANDLING AND STORAGE -

STORE IN A COOL, DRY, WELL-VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIALS KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE.

- SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION -

ENGINEERING CONTROLS:
USE IN WELL-VENTILATED AREAS. IF NECESSARY, USE MECHANICAL LOCAL EXHAUST
VENTILATION OR GENERAL ROOM DILUTION VENTILATION TO REDUCE VAPOR
CONCENTRATIONS BELOW APPLICABLE EXPOSURE LIMITS.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYE PROTECTION: PREVENT EYE CONTACT. WEAR CHEMICAL SPLASH GOGGLES OR SIMILAR EYE PROTECTION IF THE POTENTIAL EXISTS FOR EYE CONTACT.

AVOID UNNECESSARY SKIN CONTACT. IT IS RECOMMENDED THAT RUBBER GLOVES BE WORN TO PREVENT SKIN CONTACT. DEPENDING ON CONDITIONS OF USE ADDITIONAL PROTECTIVE EQUIPMENT MAY BE NECESSARY SUCH AS FACE-SHIELD, APRON OR COVERALLS.

RESPIRATORY PROTECTION:
NONE REQUIRED FOR NORMALLY EXPECTED USE CONDITIONS. IF EXPOSURE LIMITS ARE
EXCEEDED OR IF IRRITATION IS EXPERIENCED, APPROPRIATE NIOSH APPROVED
RESPIRATORY PROTECTION SHOULD BE WORN.

GENERAL HYGIENE PRACTICES

WASH AFTER HANDLING MATERIAL. PREVENT EYE CONTACT. AVOID PROLONGED SKIN AND INHALATION CONTACT. WASH THOROUGHLY BEFORE HANDLING FOOD, COSMETICS, OR BEFORE SMOKING.

- SECTION 9 PHYSICAL DATA -

APPEARANCE: CLOUDY WHITE ODOR: CHLORINATED SOLVENT

PHYSICAL STATE: LIQUID

pH: N/D

BOILING POINT: 150 DEG. F

MELITING POINT: N/D

VAPOR PRESSURE: 300 MMHg 20 DEG. C

VAPOR DENSITY: HEAVIER

VISCOSITY: N/D

SOLUBILITY IN WATER: LIMITED

SPECIFIC GRAVITY (WATER = 1): 1.18

- SECTION 10 STABILITY AND REACTIVITY -

STABILITY: STABLE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS: COMBUSTION MAY YIELD CARBON MONOXIDE, CARBON DIOXIDE, PHOSGENE AND/OR HCL. DO NOT BREATHE SMOKE OR FUMES. WEAR APPROPRIATE PROTECTIVE EQUIPMENT

CONDITIONS TO AVOID: OPEN FLAMES, WELDING ARCS OR OTHER HIGH TEMPERATURE SOURCES.

AVOID CONTACT WITH OXYGEN, NITROGEN, PEROXIDE, OXIDIZERS AND REACTIVE METALS (I.E., ALUMINUM, POTASSIUM, SODIUM, ETC.).

- SECTION 11 TOXICOLOGICAL INFORMATION -

CARCINOGENICITY:

THE FOLLOWING INGREDIENTS ARE PRESENT AT GREATER THAN 0.1% AND ARE CLASSIFIED BY LARC, NTP, OR OSHA AS CARCINOGENIC:

INGREDIENT

CAS # 75-09-2 IARC YES

NTP YES

YES

OSHA.

METHYLENE CHLORIDE

METHYLENE CHLORIDE: A 1986 NIP, 2-YEAR ANIMAL INHALATION STUDY REPORT STATES THAT THERE IS "CLEAR EVIDENCE OF CARCINGGENICITY" IN MICE (LUNG AND LIVER TUMORS) AND FEMALE RATS (MAMMARY TUMORS). NIP LIST METHYLENE CHLORIDE AS REASONABLE ANTICIPATED TO BE A HUMAN CARCINGGEN. LARC LISTS METHYLENE CHLORIDE AS A GROUP 2B CARCINGGEN (HAVING INADBOUATE EVIDENCE IN HUMANS AND SUFFICIENT EVIDENCE IN ANIMALS TO EVALUATE CARCINGGENICITY).

(SEE ALSO SECTION 15 FOR RELATED INFORMATION)

- SECTION 12 ECOLOGICAL INFORMATION -

CHEMICAL FATE AND EFFECTS: NONE KNOWN

- SECTION 13 DISPOSAL CONSIDERATIONS -

RECOMMENDED WASTE DISPOSAL METHOD:
THIS MATERIAL, WHEN DISCARDED OR DISPOSED OF, COULD BE A HAZARDOUS WASTE
ACCORDING TO FEDERAL REGULATIONS (40 CFR 261) DUE TO THE CHARACTERISTIC OF
TITABILITY (DOO1). THE TRANSPORTATION, STORAGE, TREATMENT, AND DISPOSAL
HIS WASTE MIST BE CONDUCTED IN COMPLIANCE WITH 40 CFR 262, 263, 264,
-AND 270. DISPOSAL CAN ONLY COCUR IN PROPERLY PERMITTED FACILITIES.
\*\*X STATE AND LOCAL REGULATIONS FOR ANY ADDITIONAL REQUIREMENTS AS THESE
MAY BE MORE RESTRICTIVE THAN FEDERAL LAWS AND REGULATIONS. CHEMICAL
ADDITIONS, PROCESSING OR CHEMICAL
WASTE MANAGEMENT INFORMATION PRESENTED IN THIS MATERIAL MAY MAKE THE
WASTE MANAGEMENT INFORMATION PRESENTED IN THIS MSDS INCOMPLETE, INACCURATE,
OR CHEMICSE INAPPROPRIATE. OR OTHERWISE INAPPROPRIATE

- SECTION 14 TRANSPORTATION INFORMATION -

REGULATED BY THE DOT: YES

DOT PROPER SHIPPING NAME: CONSUMER COMMODITY

HAZARD CLASS: ORM-D

- SECTION 15 REGULATORY INFORMATION -

CERCT A

CERCIA:
THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT OF
1980 (CERCIA) REQUIRES NOTIFICATION TO THE NATIONAL RESPONSE CENTER FOR
RELEASES OF QUANTITIES OF HAZARDOUS SUBSTANCES EQUAL TO OR GREATER THAN
THE REPORTABLE QUANTITIES (RQS) IN 40 CFR 302.4 (FOR CERCIA 102).

COMPONENTS PRESENT IN THIS PRODUCT AT A LEVEL WHICH COULD REQUIRE REPORTING UNDER THE STATUTE ARE:

CHEMICAL NAME

CAS#

MAXIMUM CONCENTRATION (WT. %)

METHYLENE CHLORIDE (DICHLORO METHANE)

75-09-2

N/A

TOLUENE (TOLUOL)

108-88-3

N/A

METHANOL (METHYL ALCOHOL) 67-56-1

N/A

SARA TITLE III, SECTION 311/312: THE SUPERFUND AMENIMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III REQUIRES EMERGENCY PLANNING BASED ON THRESHOLD PLANNING QUANTITIES (TPQS) AND RELFASE REPORTING BASED ON REPORTABLE QUANTITIES (RQS) IN 40 CFR 355 (USED FOR SARA 302, 304, 311 AND 312).

COMPONENTS PRESENT IN THIS PRODUCT AT A LEVEL WHICH COULD REQUIRE REPORTING UNDER THE STATUTE ARE:

CHEMICAL NAME

CAS#

MAXIMUM CONCENTRATION (WT. %)

N/A

TITLE III, SECTION 313: SUPERFUND AMENIMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III RES SUBMISSION OF ANNUAL REPORTS OF RELEASE OF TOXIC CHEMICALS THAT AR IN 40 CFR 372 (FOR SARA 313).

COMPONENTS PRESENT IN THIS PRODUCT AT A LEVEL WHICH COULD REQUIRE REPORTING UNDER THE STATUTE ARE:

CHEMICAL NAME

CAS#

MAXIMUM CONCENTRATION (WI. %)

75-09-2 METHYLENE CHLORIDE (DICHLORO METHANE)

TOLUENE (TOLUOL) 108-88-3

N/A N/A

METHANOL (METHYL ALCOHOL) 67-56-1

TSCA: THE COMPONENTS OF THIS MIXTURE ARE LISTED IN THE TOXIC SUBSTANCE CONTROL ACT INVENTORY OF CHEMICAL SUBSTANCES.

N/A

THIS PRODUCT DOES CONTAIN CHEMICALS THAT REQUIRE EXPORT NOTIFICATION UNDER SECTION 12 (B) OF THE TSCA REGULATION:

MAXIMUM CONCENTRATION (WT. %)

DIPROPYLENE GLYCOL-METHYL N230 ETHER (GLYCOL ETHER)

- SECTION 16 OTHER INFORMATION -

LEGEND

N/A: NOT APPLICABLE
N/D: NOT DETERMINED
N/E: NOT ESTABLISHED
N/R: NOT REQUIRED
CPS: CENTIPOISE
KU: KRESS UNITS

KU: KREBS UNITS
STEL: SHORT TERM EXPOSURE LIMIT
C: OSHA CEILING VALUE
PPM: PARTS PER MILLION
PPB: PARTS PER BILLION
PPB: PARTS PER BILLION
PPB: PARTS SIBLE EXPOSURE LIMIT
TLV: THRESHOLD LIMIT VALUE
TWA: TIME WEIGHTED AVERAGE
MS/M3: MILLIGRAMS PER CUBIC METER
MPPCF: MILLION PARTICLES PER CUBIC FOOT OF AIR.
ACGIH: AMERICAN COMPERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (US DEPT. OF LABOR)
RCRA: RESOURCE CONSERVATION AND RECOVERY ACT
TSCA: TOXIC SUBSTANCE CONTROL ACT
FHSA: FEDERAL HAZARDOUS SUBSTANCE ACT

PREPARED BY:

ZINSSER HEALTH AND SAFETY MANAGER ZINSSER HEALTH AND SAFELY P RESULATORY COMPLIANCE DEPT. 173 BELMONT DRIVE SOMERSET, NJ 08875 (732) 469-8100

DISCLAIMER:

ZINSSER CO., INC. BELIEVES, TO THE BEST OF ITS KNOWLEDGE, INFORMATION AND
BELIEF, THE INFORMATION CONTAINED HEREIN TO BE ACCURATE AND RELIABLE AS OF
THE DATE OF THIS MATERIAL SAFETY DATA SHEET. HOWEVER, BECAUSE THE
CONDITIONS OF HANDLING, USE, AND STORAGE OF THESE MATERIALS ARE BEYOND OUR
CONTROL, WE ASSUME NO RESPONSIBILITY OR LIABILITY FOR PERSONAL INJURY OR
PROPERTY DAMAGE INCURRED BY THE USE OF THESE MATERIALS AND MAKE NO
WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OR RELIABILITY OF
THE DATA OR RESULTS OBTAINED FROM THEIR USE. ALL MATERIALS MAY PRESENT
UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. THE INFORMATION AND
RECOMMENDATIONS IN THIS MATERIAL SAFETY DATA SHEET ARE OFFERED FOR THE
USERS' CONSIDERATION AND EXAMINATION. IT IS THE RESPONSIBILITY OF THE USER
TO DETERMINE THE FINAL SUITABILITY OF THIS INFORMATION AND DATA AND TO
COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE, AND LOCAL LAWS
AND RESULTATIONS.

EST.: ESTIMATED

#### MATERIAL SAFETY DATA SHEET

PRODUCT NAME: POLYCOAT H.S. EN NEUTRAL BASE HMIS CODES: H F R P PRODUCT CODE: 759304 2 3 0 H

======= SECTION I - MANUFACTURER IDENTIFICATION ==========

MANUFACTURER'S NAME: RODDA PAINT COMPANY ADDRESS : 12000 SW Garden Place

Tigard, OR 97223

EMERGENCY PHONE : (800) 424-9300 DATE PRINTED (707/12/00 )
INFORMATION PHONE : (503) 521-4300 NAME OF PREPARER : Rick Barnard

==== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION ====

REPORTABLE COMPONENTS CA	S NUMBER 1	POR PRESSURE MM HG @ TEMP	
PROPYLENE GLYCOL MONOMETHYL ET			
NONE ESTABLISHED			
	3-86-4		0 - 10
OSHA: TLV 150.0 PPM	0 40 0	0 0 60 7	0 10
METHYL N-AMYL KETONE 11		2.8 68 F	0 - 10
ACGIH THRESHOLD LIMIT VAL			
OSHA PEL (Permissible Exp			0 10
METHYL NORMAL AMYL KETONE 11	0-43-0	2.14 20C	Ó – TO
OSHA TWA- 100ppm 465mg/m3	<b>-</b>		
NIOSH TWA- 100ppm 465mg/m	3		
ACGIH TWA- 50ppm 233mg/m3			
		22 20C	
OSHA TWA- 200ppm Ceiling-			
peak above the acceptable	ceiling concent	raction for an	8-hour shift:
500ppm/10 minutes)			
NIOSH TWA- 100ppm 375mg/m3	STEL- 150ppm 5	60mg/m3	
ACGIH TWA- 50ppm 188mg/m3			
HYDRATED AMORPHOUS SILICA			0 - 10
,	30-20-7	5.1 20 C	0 - 10 .
OSHA TWA- 100ppm 435mg/m3			
NIOSH TWA- 100ppm 435mg/m3		-	
ACGIH TWA- 100ppm 434mg/m3		551mg/m3	
PETROLEUM HYDROCARBONS TRI	ADE SECRET		0 - 10
NONE AVAILABLE		•	
# ETHYLBENZENE 100	)-41-4	10 20 C	0 - 10
OSHA TWA- 100ppm 435mg/m3			
NIOSH TWA- 100ppm 435mg/m3 ACGIH TWA- 100ppm 434mg/m3			
Accin iwa- iooppm 434mg/m	s sten- isobbw s	43119/1113	

<sup>\*</sup> Indicates toxic material(s) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372.

This product is believed not to contain materials listed as carcinogens by NTP, IARC, or OSHA.

The above chemical(s) meet the criteria as defined under 29 CFR 1910 for toxic and hazardous substances.

> Indicates material(s) listed on California's Proposition 65 known to the state to cause reproductive toxicity or cancer.

# Indicates materials listed in Section 112(b) of the Clean Air Act.

====== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =======

BOILING RANGE: 230.7F - 304 F SPECIFIC GRAVITY (H2O=1): 1.01

VAPOR DENSITY: Heavier than air. EVAPORATION RATE: Faster than Butyl Acetate.

COATING V.O.C.: 3.69 lb/ql MATERIAL V.O.C.: 3.69 lb/ql

SOLUBILITY IN WATER: None

APPEARANCE AND ODOR: White liquid, solvent odor.

======= SECTION IV - FIRE AND EXPLOSION HAZARD DATA =======

FLASH POINT: 40F METHOD USED: TCT

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.0 UPPER: 7.9

EXTINGUISHING MEDIA: CO2, dry chemical, foam, or water spray for large fires.

#### SPECIAL FIREFIGHTING PROCEDURES:

For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. Self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode to protect against the hazardous effects of normal products of combustion or oxygen deficiency.

#### UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (just residue) can ignite EXPLOSIVELY! Thermal decomposition of this product will produce carbon monoxide and carbon dioxide.

STABILITY: | X | Stable | | Unstable

CONDITIONS TO AVOID

Excessive temperatures. Avoid all heat sparks and sources of ignition.

INCOMPATIBILITY (MATERIALS TO AVOID)

Water, amines, strong bases, alcohol, metal compounds, and surface active metals.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

Carbon dioxide, carbon monoxide, oxides of nitrogen, HCN, HDI.

HAZARDOUS POLYMERIZATION: | X | May occur | | Will not occur

#### INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Use only with adequate ventilation. Do not breathe dust or spray mist. Ensure fresh air entry during application and drying. For spray application, sanding, abrading, and dust cleanup, wear an appropriate properly fitted respirator (NIOSH/MSHA TC21C approved). Follow respirator manufacturer's directions for respirator use.

If affected, remove to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Get medical attention.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE Contact with skin can cause irritation. Symptoms include: reddening, swelling, rash, scaling or blistering. Contact with eyes can cause irritation and pain. Symptoms of exposure include: tearing, reddening and swelling accompanied by a stinging sensation. Chronic eye contact may result in corneal opacity.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE Prolonged exposure limit may result in the absorption of harmful amounts of material.

#### INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Can result in irritation ans possible corrosive action in the mouth, stomach tissue and digestive tract. Do not induce vomitting if swallowed. Give 1 to 2 cups milk or water to drink, then consult a physician.

#### HEALTH HAZARDS (ACUTE AND CHRONIC)

Acute inhalation: irritates the mucous membranes in the respiratiory tract, causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function.

Chronic inhalation: repeated overexposures will result in chemical asthma, with symptoms which include; chest tightness, wheezing, cough, and shortnes of breath.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: Yes This material is not listed as a human carcinogenic.

#### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Aggravated by exposure: asthma and other respiratory disorders, skin allergies, and eczema.

#### EMERGENCY AND FIRST AID PROCEDURES

SKIN- Wash exposed area with soap and water. EYES- Flush with large amounts of water.

====== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ======

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Eliminate all ignition sources (flares, flames including pilot lights and electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up had been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up with sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers. Prevent run-off sewers, streams, or other bodies of water.

#### WASTE DISPOSAL METHOD

Destroy by liquid incineration. Material collected on absorbent material may be deposited in an approved toxic substance landfill in accordance with local, state, and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in a cool, dry area. Keep away from heat, sparks, and open flame. Keep containers closed when not in use. Use only with adequate ventilation.

#### OTHER PRECAUTIONS

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in this data sheet must be observed. READ AND OBSERVE ALL PRECAUTIONS ON LABEL!

======== SECTION VIII - CONTROL MEASURES ===========

#### RESPIRATORY PROTECTION:

If TLV of the product or any coponent is exceeded, a NIOSH/MESA jointly approved self-contained breathing apparatus with a full face piece operated in pressure demand or other positive pressure mode is advised; however, OSHA regulations also permit other NIOSH/MESA respirators under specified conditions. (See your safety equipment supplier).

#### VENTILATION:

Provide sufficient mechanical and/or local exhaust to maintain exposure below TLV(s).

#### PROTECTIVE GLOVES:

Wear resistant gloves such as: BUNA-N

#### EYE PROTECTION:

Chemical splash goggles in compliance with OSHA regulatioins are advised, unless full facepiece respirator is worn.

#### OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

#### WORK/HYGIENIC PRACTICES:

Wash hands thoroughly after handling this product.

This information provided as a resource only. It should not be taken as a warranty or representation for which Rodda Paint Co. assumes legal responsibility. The information contained is believed to be accurate and compiled from sources believed to be reliable, it is the responsibility of the user to investigate and verify its validity. The user assumes all responsibility of using and handling the product in accordance with applicable federal, state, and local regulations.

32287 07/11/00

#### MATERIAL SAFETY DATA SHEET

PRODUCT NAME: POLYCOAT H.S. PART B HMIS CODES: H F R P PRODUCT CODE: 32287

====== SECTION I - MANUFACTURER IDENTIFICATION ======

MANUFACTURER'S NAME: RODDA PAINT COMPANY : 12000 SW Garden Place

Tigard, OR 97223

: (800) 424=9300 : 07/11/00/ DATE PRINTED EMERGENCY PHONE INFORMATION PHONE : (503) 521-4300 NAME OF PREPARER : Rick Barnard

==== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION ====

VAPOR PRESSURE REPORTABLE COMPONENTS CAS NUMBER MM HG @ TEMP PERCENT \_\_\_\_\_\_\_

HOMOPOLYMER OF HDI 80 - 9028182-81-2

The recommended Guideline Levels by the raw material vendor for HDI based Polyisocyanates is 0.5 mg/m3 TWA averaged over 8 hours and 1.0 mg/m3 Short Term Exposure STEL averaged over 15 minutes.

N-BUTYL ACETATE 123-86-4

OSHA: TLV 150.0 PPM

5.1 20 C 0 - 10 \*# XYLENE 1330-20-7

OSHA TWA- 100ppm 435mg/m3

NIOSH TWA- 100ppm 435mg/m3 STEL- 150ppm 655mg/m3 ACGIH TWA- 100ppm 434mg/m3 STEL- 150ppm 651mg/m3

20 C \*# ETHYLBENZENE 100-41-4

OSHA TWA- 100ppm 435mg/m3

NIOSH TWA-100ppm 435mg/m3 STEL- 125ppm 545mg/m3 ACGIH TWA- 100ppm 434mg/m3 STEL- 125ppm 543mg/m3

\* Indicates toxic material(s) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372.

This product is believed not to contain materials listed as carcinogens by NTP, IARC, or OSHA.

The above chemical(s) meet the criteria as defined under 29 CFR 1910 for toxic and hazardous substances.

This product is believed not to contain materials listed on California's Proposition 65.

# Indicates materials listed in Section 112(b) of the Clean Air Act.

====== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =======

BOILING RANGE: 276 F - 382F

SPECIFIC GRAVITY (H2O=1): 1.07 VAPOR DENSITY: Heavier than air. EVAPORATION RATE: Faster than Butyl Acetate.

COATING V.O.C.: 1.79 lb/gl MATERIAL V.O.C.: 1.79 lb/gl

SOLUBILITY IN WATER: None

APPEARANCE AND ODOR: Clear liquid, solvent odor.

======= SECTION IV - FIRE AND EXPLOSION HAZARD DATA ========

FLASH POINT: 59 F METHOD USED: TCC

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.0 UPPER: 7.0

EXTINGUISHING MEDIA: CO2, dry chemical, foam, or water spray for large fires.

#### SPECIAL FIREFIGHTING PROCEDURES:

Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by firefighters. During a fire, HDI vapors and other irritating, highly toxic gasses may be generated by thermal decomposition or combustion. Closed container may explode when exposed to extreme heat or burst when contaminated with water (CO2 evolved).

#### UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (just residue) can ignite EXPLOSIVELY! Thermal decomposition of this product will produce carbon monoxide and carbon dioxide.

STABILITY: | X | Stable | | Unstable

CONDITIONS TO AVOID

Excessive temperatures. Avoid all heat sparks and sources of ignition.

#### INCOMPATIBILITY (MATERIALS TO AVOID)

Water, amines, strong bases, alcohol, metal compounds, and surface active metals.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
Carbon dioxide, carbon monoxide, oxides of nitrogen, HCN, HDI.

HAZARDOUS POLYMERIZATION: | X | May occur | | Will not occur

#### INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Acute Inhalation- HDI vapors or mist at concentrations above the TLV can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat. coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction). Persons with a preexisting, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV with similar symptoms as well as an asthma attack. Exposure well above the TLV may lead to bronchitis, bronchial spasms and pulmonary edema (fluid in lungs). These effects are usually reversible. Chemical or hypersensitive pneumonitis, with flu-like symptoms have also been reported.

Chronic Inhalation— As a result of previous repeated overexposures or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the TLV. These symptoms, which include: chest tightness, wheezing, cough, shortness of breath or asthmatic attack, could be immediate or delayed up to several hours after exposure. Similar to many non-specific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure to dust, cold air or other irritants. This increased lung sensitivity can persist for weeks and in severe cases for

several years. Chronic overexposure to isocyanates has also been reported to cause lung damage, including decrease in lung function, which may be permanent. Sensitization may be either temporary or permanent.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Acute Skin Contact- Isocyanates react with skin protein and moisture and can cause irritation. Symptoms of skin irritation may be reddening, swelling, rash, scaling or blistering. Some persons may develop skin sensitization from skin contact. Cured material is difficult to remove.

Chronic Skin Contact- Prolonged contact with the isocyanate can cause reddening, swelling, rash, scaling or blistering. In those who have developed a skin sensitization, these symptoms can develop as a result of contact with very small amounts of liquid material or even as a result of vapor-only exposure.

Acute Eye Contact- Liquid, aerosols and vapors of this product are irritation and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Chronic Eye Contact- May result in corneal opacity (clouding of the eye

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE Prolonged exposure limit may result in the absorption of harmful amounts of material.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Can result in irritation ans possible corrosive action in the mouth, stomach
tissue and digestive tract. Do not induce vomitting if swallowed. Give 1 to 2
cups milk or water to drink, then consult a physician.

#### HEALTH HAZARDS (ACUTE AND CHRONIC)

surface).

Acute inhalation: irritates the mucous membranes in the respiratiory tract, causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function.

Chronic inhalation: repeated overexposures will result in chemical asthma, with symptoms which include; chest tightness, wheezing, cough, and shortnes of breath.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: Yes This material is not listed as a human carcinogenic.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE Aggravated by exposure: asthma and other respiratory disorders, skin allergies, and eczema.

EMERGENCY AND FIRST AID PROCEDURES SKIN- Wash exposed area with soap and water. EYES- Flush with large amounts of water.

====== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ======

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Eliminate all ignition sources (flares, flames including pilot lights and electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up had been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up with sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers. Prevent run-off sewers, streams, or other bodies of water.

#### WASTE DISPOSAL METHOD

Destroy by liquid incineration. Material collected on absorbent material may be deposited in an approved toxic substance landfill in accordance with local, state, and federal regulations.

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected. At maximum storage temperatures noted, material may slowly polymerize without hazard. Ideal storage temperature range for ease of handling is 50-81 F (10-27 C). Avoid contact with skin and eyes. Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard.

#### OTHER PRECAUTIONS

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in this data sheet must be observed. READ AND OBSERVE ALL PRECAUTIONS ON LABEL!

======== SECTION VIII - CONTROL MEASURES ==========

#### RESPIRATORY PROTECTION:

If TLV of the product or any coponent is exceeded, a NIOSH/MESA jointly approved self-contained breathing apparatus with a full face piece operated in pressure demand or other positive pressure mode is advised; however, OSHA regulations also permit other NIOSH/MESA respirators under specified conditions. (See your safety equipment supplier).

#### VENTILATION:

Provide sufficient mechanical and/or local exhaust to maintain exposure below TLV(s).

#### PROTECTIVE GLOVES:

Wear resistant gloves such as: BUNA-N

#### EYE PROTECTION:

Chemical splash goggles in compliance with OSHA regulatioins are advised, unless full facepiece respirator is worn.

#### OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

#### WORK/HYGIENIC PRACTICES:

Wash hands thoroughly after handling this product.

This information provided as a resource only. It should not be taken as a warranty or representation for which Rodda Paint Co. assumes legal responsibility. The information contained is believed to be accurate and compiled from sources believed to be reliable, it is the responsibility of the user to investigate and verify its validity. The user assumes all responsibility of using and handling the product in accordance with applicable federal, state, and local regulations.

## **ITEM: 6KP13 - Paint Spray Banner Red**

MSDS: A8809

PICK REO: 1037325023

1.2.4-TRIMETHYLBENZENE

**MATERIAL SAFETY DATA SHEET (MSDS)** 

This MSDS should be attached or kept with the respective product with which it is associated. ciated Grainger Item: 6KP13 - Paint Spray Banner Red STODDARD SOLVENTS 100 PPM N.E. 500 PPM NE. 6KP19, 6KP21, 6KP22, 6KP25, 6KP27, 6KP28, 6KP29, 6KP31, 6YH15 ALIPHATIC HYDROCARBON 300 PPM N.E. 300 PPM NE. MATERIAL SAFETY DATA SHEET PIGMENT YELLOW 73 2 MG/M3 N.E. 2 MG/M3 N.E. 24 HOUR ASSISTANCE: 1=847:367-7700 RUST-OLEUM CORP. PIGMENT BLACK 7 3.5 MG/M3 N.E. 3.5 MG/M3 N.E. PIGMENT YELLOW 17 2 MG/M3 N.E. 5 MG/M3 N.E. WWW.RUSTOLEUM.COM 1,3,5-TRIMETHYLBENZENE 25 PPM N.E. N.E. N.E. SECTION 1 - CHEMICAL PRODUCT / COMPANY INFORMATION -PIGMENT VIOLET 32 N.E. N.E. PRODUCT NAME: N INDUSTRIAL CHOICE AEROSOLS SECTION 3 - HAZARDS IDENTIFICATION TDENTIFICATION NUMBER: N1622830, N1624830, N1624830, N1644830, N1644830, N1653830, N1644830, N1664830, N1664830, N1671830, N1674830, N1676830, N1678830, N1678830, N1684830, N1686830, N168830, N1692830, N1692800, N1692800, N1692800, N1692800, N1692800, N1692800, N169 EMERGENCY OVERVIEW EMERGENCI OVERVIEW:
CONTENTS UNDER PRESSURE. VAPORS MAY CAUSE FLASH FIRE OR EXPLOSION. EXTREMELY
FLAMMABLE LIQUID AND VAPOR. HARMFUL IF INHALED. MAY AFFECT THE BRAIN OR
NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. HARMFUL IF SWALLOWED. PRODUCT USE/CLASS: TOPCOATS/AEROSOL EFFECTS OF OVEREXPOSURE - EYE CONTACT: CAUSES EYE IRRITATION. SUPPLIER EFFECTS OF OVEREXPOSURE - SKIN CONTACT: PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN IRRITATION. SUBSTANCE MAY CAUSE SLIGHT SKIN IRRITATION. RUST-OLEUM CORPORATION 11 HAWIHORN PARKWAY VERNON HILLS, IL 60061 EFFECTS OF OVEREXPOSURE - INHALATION: HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES, NOSE, THROAT AND LUNGS. AVOID BREATHING VAPORS OR MISTS. HIGH GAS, VAPOR, MIST OR DU CONCENTRATIONS MAY BE HARMFUL IF INHALED. HARMFUL IF INHALED. MANUFACTURER: RUST-OLEUM CORPORATION 11 HAWIHORN PARKWAY MIST OR DUST VERNON HILLS, IL 60061 EFFECTS OF OVEREXPOSURE - INGESTION: ASPIRATION HAZARD IF SWALLOWED; CAN ENTER LUNGS AND CAUSE DAMAGE. SUBSTANCE MAY BE HARMFUL IF SWALLOWED. PREPARER: REGULATORY DEPARTMENT EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:

LARC LISTS ETHYLBENZENE AS A POSSIBLE HUMAN CARCINOGEN (GROUP 2B). MAY CAUSE CENTRAL NERVOUS SYSTEM DISORDER (E.G., NARCOSIS INVOLVING A LOSS OF COORDINATION, WEAKNESS, FATIGUE, MENTAL CONFUSION, AND BLURRED VISION) AND/OR DAMAGE. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. OVEREXPOSURE TO XYLENE IN LABORATORY ANIMALS HAS BEEN ASSOCIATED WITH LIVER ABNORMALITIES, KIDNEY, LUNG, SPLEEN, EYE AND BLOOD DAMAGE AS WELL AS REPRODUCTIVE DISORDERS. EFFECTS IN HUMANS, DUE TO CHRONIC OVEREXPOSURE, HAVE INCLIDED LIVER, CARDIAC ABNORMALITIES AND NERVOUS SYSTEM DAMAGE. OVEREXPOSURE TO TOLUENE IN LABORATORY ANIMALS HAS BEEN ASSOCIATED WITH LIVER ABNORMALITIES, KIDNEY, LUNG AND SPLEEN DAMAGE. EFFECTS IN HUMANS HAVE INCLUDED LIVER AND CARDIAC ABNORMALITIES. REVISION DATE 01/24/2006 - SECTION 2 - COMPOSITION / INFORMATION ON INCREDIENTS CHEMICAL NAME CAS NUMBER WEIGHT % LESS THAN ACETONE 67-64-1 35.0 LIQUETED PETROLEUM GAS 68476-86-8 30.0 1330-20-7 20.0 CONTAINS CARBON BLACK. CHRONIC INFLAMMATION, LUNG FIBROSIS, AND LUNG TUMORS HAVE BEEN OBSERVED IN SOME RATS EXPERIMENTALLY EXPOSED FOR LONG PERIODS OF TIME TO EXCESSIVE CONCENTRATIONS OF CARBON BLACK AND SEVERAL INSOLUBLE FINE DUST PARTICLES. IMPORS HAVE NOT BEEN OBSERVED IN OTHER ANIMAL SPECIES (I.E., MOUSE AND HAMPSTER) UNDER SIMILAR CIRCUMSTANCES AND STUDY CONDITIONS. EPIDEMIOLOGICAL STUDIES OF NORTH AMERICAN WORKERS SHOW NO EVIDENCE OF CLINICALLY SIGNIFICANT ADVERSE HEALTH EFFECTS DUE TO OCCUPATIONAL EXPOSURE TO CARBON BLACK. NF. 108-88-3 20.0-ALIPHATIC PETROLEUM DISTILLATES 64742-89-8 20.0 TITANIUM DIOXIDE 13463-67-7 15.0 NAPHTHA 8032-32-4 10.0 ETHYLBENZENE 100-41-4 10.0 CARBON BLACK IS LISTED AS A GROUP 2B-"POSSIELY CARCINGERIC TO HUMANS" BY LARC AND IS PROPOSED TO BE LISTED AS A4 - "NOT CLASSIFIED AS A HUMAN CARCINGER" BY THE AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENLSTS. SIGNIFICANT EXPOSURE IS NOT ANTICIPATED DURING SRUSH APPLICATION OR DRYING. RISK OF OVEREXPOSURE DEPENDS ON DURATION AND LEVEL OF EXPOSURE TO DUST FROM REPEATED SANDING OF SURFACES OR SPRAY MIST AND THE ACTUAL CONCENTRATION OF CARBON BLACK IN THE FORMULA. AROMATIC HYDROCARBON 64742-95-6 5.0 MAGNESIUM SILICATE 14807-96-6 5.0 1.2.4-TRIMETHYLBENZENE 95-63-6 5.0 AROMATIC SOLVENT 64742-95-6 5.0 PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT, SKIN ABSORPTION, INHALATION, EYE CONTACT STODDARD SOLVENTS 8052-41-3 ALIPHATIC HYDROCARBON 64742-89-8 5.0 PIGMENT YELLOW 73 13515-40-7 5.0 - SECTION 4 - FIRST AID MEASURES -PIGMENT BLACK 7 1333-86-4 5.0 FIRST AID - EYE CONTACT HOLD EYELIDS APART AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. PIGMENT YELLOW 17 4531-49-1 5.0 1,3,5-TRIMETHYLBENZENE FIRST AID - SKIN CONTACT: WASH WITH SOAP AND WATER, GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS. 108-67-8 5.0 PIGMENT VIOLET 32 12225-08-0 0.1 FIRST AID - INHALATION: IF YOU EXPERIENCE DIFFICULTY IN BREATHING, LEAVE THE AREA TO OBTAIN FRESH AIR. IF CONTINUED DIFFICULTY IS EXPERIENCED, GET MEDICAL ASSISTANCE CHEMICAL NAME ACGIH TLV-TWA ACGIH OSHA OSHA TLV-STEL PEL-TWA PEL-CEILING TMMEDIATELY. ACETONE 500 PPM 750 PPM 750 PPM N.E FIRST AID - INGESTION: ASPIRATION HAZARD: DO NOT INDUCE VONITING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN ENTER THE LUNGS AND CAUSE SEVERE LUNG DAMAGE. GET IMMEDIATE MEDICAL LIQUEFIED PETROLEUM GAS 1000 PPM N.E. 1000 PPM N.E. XYLENE 100 PPM 150 PPM 100 PPM TOLLENE 50 PPM 150 PPM 200 PPM 300 PPM ALIPHATIC PETROLEUM 400 PPM - SECTION 5 - FIRE FIGHTING MEASURES -N.E. 400 PPM N.E. DISTILLATES FLASH POINT: -156 F (SETAFLASH) TANIUM DIOXIDE 10 MG/M3 10 MG/M3 LOWER EXPLOSIVE LIMIT: 0.7% UPPER EXPLOSIVE LIMIT: 12.8% 300 PPM N.E. NE NE SENZENE 100 PPM EXTINGUISHING MEDIA: DRY CHEMICAL, FOAM, WATER FOG 125 PPM 100 PPM N.E. UNUSUAL FIRE AND EXPLOSION HAZARDS:
WATER SPRAY MAY BE INEFFECTIVE. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED
TO EXTREME HEAT. VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. FLARS
LESS THAN 20 DEG. F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR.S
PERFORATION OF THE PRESSURIZED CONTAINER MAY CAUSE BURSTING OF THE CAN.
ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME. VAPORS CAN ALLAMATIC HYDROCARBON N.E. N.E. N.E. N.E. MAGNESTUM SILICATE 10 MG/M3 N.E. 15 MG/M3 N.E.

N.E.

N.E.

TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK. KEEP CONTAINERS TIGHTLY CLOSED. SPECIAL FIREFIGHTING PROCEDURES: EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE. - SECTION 6 - ACCIDENTAL RELEASE MEASURES 'S TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: IN SPILLED LIQUID WITH SAND OR FARTH. DO NOT USE COMBUSTIBLE MATERIALS

AS SAWDUST. REMOVE ALL SOURCES OF IGNITION, VENTILATE AREA AND REMOVE
THE INERT ASSORBENT AND NON-SPARKING TOOLS. DISPOSE OF ACCORDING TO LOCAL, (PROVINCIAL) AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED - SECTION 7 - HANDLING AND STORAGE -WASH HANDS BEFORE EATING. WASH THOROUGHLY AFTER HANDLING. USE ONLY IN A WELL-VENTILATED AREA. AVOID BREATHING VAPOR OR MIST. FOLLOW ALL MSDS/LABE PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED BECAUSE IT MAY RETAIN PRODUCT STORAGE:

DO NOT STORE ABOVE 120 DEG. F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED AND PROTECTED FOR STORAGE OF NFPA CLASS I FLAMMABLE LIQUIDS. KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIRMENT, SPARKS AND OPEN FLAME. CONTENTS UNDER PRESSURE. DO NOT EXPOSE TO HEAT OR STORE ABOVE 120 DEG. F. - SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION -ENGINEERING CONTROLS ENGINEERING CONTROLS:
USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING
CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS. USE
EXPLOSION-PROOF VENTILATION EQUIPMENT. PREVENT BUILD-UP OF VAPORS BY OPENING
ALL DOORS AND WINDOWS TO ACHIEVE CROSS-VENTILATION. RESPIRATORY PROTECTION:
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND ANSI Z88.2
REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A
RESPIRATOR'S USE. A NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR WITH AN
ORGANIC VAPOR CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN
CIRCUMSTANCES WHERE AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE PROTECTION PROVIDED BY AIR PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR AN UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR ANY OTHER CIRCUMSTANCES WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE SKIN PROTECTION: NITRILE OR NEOPRENE GLOVES MAY AFFORD ADEQUATE SKIN PROTECTION, USE IMPERVIOUS GLOVES TO PREVENT SKIN CONTACT AND ABSORPTION OF THIS MATERIAL THROUGH THE SKIN. PROTECTION: SAFETY EYEMBAR DESIGNED TO PROTECT AGAINST SPLASH OF LIQUIDS. OTHER PROTECTIVE EQUIPMENT: REFER TO SAFETY SUPERVISOR OR INDUSTRIAL HYGIENIST FOR FURTHER INFORMATION REGARDING PERSONAL PROTECTIVE EQUIPMENT AND ITS APPLICATION. HYGIENIC PRACTICES: WASH THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING OR SMOKING. - SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES -BOILING RANGE: -34 - 900 F VAPOR DENSITY: HEAVIER THAN AIR ODOR: SOLVENT LIKE ODOR THRESHOLD: NO APPEARANCE: LIQUID

EVAPORATION RATE: SLOWER THAN ETHER

SOLUBILITY IN H2O: SLIGHT

FREEZE POINT: ND

SPECIFIC GRAVITY:

VAPOR PRESSURE:

pH: NE

PHYSICAL STATE: LIQUID

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

- SECTION 10 - STABILITY AND REACTIVITY -

CONDITIONS TO AVOID: AVOID TEMPERATURES ABOVE 120 DEG. F. AVOID ALL POSSIBLE SOURCES OF IGNITION.

INCOMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS AND STRONG ALKALIS.

HAZARDOUS DECOMPOSITION:

IN FLAME, CARBON MONOXIDE AND CARBON DIOXIDE. WHEN HEATED TO COSTION, IT EMITS ACRID SMOKE AND IRRITATING FUMES.

DOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

JILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

- SECTION 11 - TOXICOLOGICAL INFORMATION

PRODUCT LD50: ND

PRODUCT LC50: ND			
CHEMICAL NAME	LD50	LC50	
ACETONE	и.D.	N.D.	
LIQUEFIED PETROLEUM GAS	N.D.	N.D.	
XYLENE	N.D.	N.D.	
TOLUENE	N.D.	N.D.	
ALIPHATIC PETROLEUM DISTILL	ATES N.D.	N.D.	
TITANIUM DIOXIDE	>7500 MG, (ORAL, RA		
NAPHTHA	>5000 MG/ (ORAL, RA		
ETHYLBENZENE	3500 MG/I (ORAL, RA		
AROMATIC HYDROCARBON	N.D.	N.D.	
MAGNESIUM SILICATE	N.D.	TCLO:	11 MG/MB INH.
1,2,4-TRIMETHYLBENZENE	N.D.	18000 MG/M3 (R.	AT, 4 HR)
AROMATIC SOLVENT	4700 MG/KG (ORAL, RA	3670 MG/KG (IN	H, RAT)
STODDARD SOLVENTS	N.D.	N.D.	
ALIPHATIC HYDROCARBON	N.D.	N.D.	
PIGMENT YELLOW 73	N.D.	N.D.	
PIGMENT BLACK 7	>8000 MG, (ORAL, R		
PIGMENT YELLOW 17	N.D.	N.D.	
1,3,5-TRIMETHYLBENZENE	1303 MG/KG (ORAL, R	24 MG/MB (RAT,	4HR)
PIGMENT VIOLET 32		KG N.D.	
SECTION	12 - ECOLOGICAL	INFORMATION -	

ECOLOGICAL INFORMATION: PRODUCT IS A MIXTURE OF LISTED COMPONENTS.

SECTION 13 - DISPOSAL INFORMATION -

DISPOSAL INFORMATION:

DISPOSE OF MATERIAL IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REJILATIONS AND ORDINANCES. DO NOT ALLOW TO ENTER STORM DRAINS OR SEWER SYSTEMS.

- SECTION 14 - TRANSPORTATION INFORMATION -

DOT PROPER SHIPPING NAME: AEROSOL

DOT TECHNICAL NAME:

DOT HAZARD CLASS: 2.1

DOT UN/NA NUMBER: UN1950

PACKING GROUP:

HAZARD SUBCLASS:

RESP. GUIDE PAGE: 126

- SECTION 15 - REGULATORY INFORMATION -

CERCLA - SARA HAZARD CATEGORY:
THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES"
PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND
REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER
APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:
IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

SARA SECTION 313: LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENIMENT AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

CHEMICAL NAME CAS NUMBER XYLENE TOLUENE 108-88-3 ETHYLBENZENE 100-41-4 1.2.4-TRIMETHYLBENZENE 95-63-6

TOXIC SUBSTANCES CONTROL ACT: LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE UNITED STATES: NONE KNOWN

U.S. STATE REGULATIONS: AS FOLLOWS

NEW JERSEY RIGHT-TO-KNOW: THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE COMPONENTS IN THIS PRODUCT.

CHEMICAL NAME

CAS NUMBER

POTASSIUM ALUMINOSILICATE

37244-96-5

PENNSYLVANIA RIGHT-TO-KNOW: THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT

GREATER THAN 3%.

CHEMICAL NAME

CAS NUMBER

POTASSIUM ALUMINOSILICATE

37244-96-5

MODIFIED ALKYD

PROPRIETARY

DIFIED ALKYD

PROPRIETARY

JM SULFATE

7727-43-7

CALCIUM CARBONATE

1317-65-3

CALIFORNIA PROPOSITION 65:

WARNING!

WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN BY THE STATE OF CALIFORNIA TO CAUSE CANCER.

WARNING! THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

INTERNATIONAL REGULATIONS: AS FOLLOWS

CANADIAN WHMIS: THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT REGULATIONS EXCEPT FOR THE USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS:

AB5 D2A D2B

- SECTION 16 - OTHER INFORMATION -

HMIS RATINGS:
HEALTH 2\*
FLAMMABILITY
REACTIVITY
PERSONAL PROTECTION X

VOLATILE ORGANIC COMPOUNDS, G/L:

REASON FOR REVISION:

LEGEND:
N.A. - NOT APPLICABLE
N.E. - NOT ESTABLISHED
N.D. - NOT DETERMINED

THE INFORMATION CONTAINED ON THIS MSDS HAS BEEN CHECKED AND SHOULD BE ACCURATE. HOWEVER, IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.

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ORDER: 1039125002 ITEM: 1F750 - Paint Safe Yellow 1 G HAZMAT: 1F750

#### HAZARD MATERIAL WARNING SHEET (HAZMAT)

# When shipment is complete, retain for daily Hazmat audit

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

GRAINGER SHIPPING INFORMATION

STOCK # : 1F750

MSDS # : A7504, B0432

FREIGHT CODE : 0213

DOT PROPER SHIP NAME : COMBUSTIBLE LIQUID, NOT REGULATED BY THE DOT AS A

HAZARDOUS MATERIAL PER 49CFR 173.150(F)(2),

FLASHPOINT 40 DGS C, 104

FLASHPOINT : 40 DEGREES CELSIUS, 104 DEGREES FAHRENHEIT

UPS RESTRICTIONS :

HAZARDOUS CLASS NUMBER :

UN ID #

PACKING GROUP : SHIPPING LABEL :

LIMITED QUANTITY : NO

CARTON INSTRUCTIONS : CAN REPACK IN GRAINGER S CARTON

DOT/UPS EXEMPTION NO. :

COMMENTS : HAZARDOUS MATERIAL. DO NOT SHIP AIR!! ONLY ARROW UP

\*

LABEL (2S594) REQUIRED.

CHIPPING-PAPERS :

FLACARD OFFERED ? YES ( ) NO ( ) PLEASE MARK ONE

# ITEM: 1F750 - Paint Safe Yellow 1 G

PICK REQ: 1039125002 MSDS: **B0432 MATERIAL SAFETY DATA SHEET (MSDS)** EFFECTS OF OVEREXPOSURE - INGESTION: ASPTRATION HAZARD IF SWALLOWED; CAN ENTER LUNGS AND CAUSE DAMAGE. SUBSTANCE MAY BE HARMFUL IF SWALLOWED. 1F722, 1F738, 1F754, 1F732, 1F742, 1F730, 1F728 MATERIAL SAFETY DATA SHEET EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:
SUSPECT CANCER HAZARD-CONTAINS MATERIAL WHICH MAY CAUSE CANCER. REFORTS HAVE
ASSOCIATED REPEATED AND FROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH
PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. OVEREXPOSURE TO XYLENE IN
LABORATORY ANIPHALS HAS BEEN ASSOCIATED WITH LIVER ABRONGMALITES, KIDNEY,
LUNG, SPLEEN, EYE AND BLOOD DAMAGE AS WELL AS REPRODUCTIVE DISORDERS,
EFFECTS IN HUMANS, DUE TO CHRONIC OVEREXPOSURE, HAVE INCLUDED LIVER, CARDIAC
BENDRMALITIES AND NERVOUS SYSTEM DAMAGE. CONTAINS CARBON BLACK. CHRONIC
INFLAMMATION, LUNG FIBROSIS, AND LUNG TUMORS HAVE BEEN OBSERVED IN SOME RATS
OF CARBON BLACK AND SEVERAL INSOLUBLE FINE DUST PARTICLES, TUMORS HAVE NOT
BEEN OBSERVED IN OTHER ANIMAL SPECIES (I.E., MOUSE AND HAMPSTER) UNDER
SIMILAR CIRCUMSTRANCES AND STUDY CONDITIONS. EPIDEMIOLOGICAL STUDIES OF NORTH
AMERICAN WORKERS SHOW NO EVIDENCE OF CLINICALLY SIGNIFICANT ADVERSE HEALTH
EFFECTS DUE TO OCCUPATIONAL EXPOSURE TO CARBON BLACK. RUST-OLEUM CORP. 24 HOUR ASSISTANCE: 1-847-367-7700 WWW.RUSTOLEUM.COM - SECTION 1 - CHEMICAL PRODUCT / COMPANY INFORMATION -PRODUCT NAME: HIGH PERFORMANCE INDUSTRIAL ENAMEL LOW VOC TOPCOATS IDENTIFICATION NUMBER 3423402, 3425402, 3427402, 3433402, 3438402, 3444402, 3445402, 3446402, 3455402, 3456402, 3464402, 3465402, 3470402, 3471402, 3477402, 3478402, 3479300, 3479402, 3482402, 3486402, 3492300, 3492402 CARBON BLACK IS LISTED AS A GROUP 2B-"POSSIBLY CARCINGERIC TO HUMANS" BY LARC AND IS PROPOSED TO BE LISTED AS A4- "NOT CLASSIFIED AS A HUMAN CARCINGER" BY THE AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS. SIGNIFICANT EXPOSURE IS NOT ANTICIPATED DURING ERUSH APPLICATION OR DRYING. RISK OF OVEREXPOSURE DEPENDS ON DURATION AND LEVEL OF EXPOSURE TO DUST FROM REPEATED SANDING OF SURFACES OR SPRAY MIST AND THE ACTUAL CONCENTRATION OF CARBON BLACK IN THE FORMULA. PRODUCT USE/CLASS: TOPCOATS/LOW VOC ALKYD SUPPLIER: RUST-OLEUM CORPORATION 11 HAWIHORN PARKWAY VERNON HILLS, IL 60061 PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT, SKIN ABSORPTION, INHALATION, EYE CONTACT MANUFACTURER: RUST-OLEUM CORPORATION 11 HAWIHORN PARKWAY VERNON HILLS, IL 60061 - SECTION 4 - FIRST AID MEASURES -FIRST ATD - EYE CONTACT HOLD EYELIDS APART AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. PREPARER: REGULATORY DEPARTMENT FIRST AID - SKIN CONTACT: WASH WITH SOAP AND WATER, GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS. REVISION DATE: 11/21/2006 - SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS -FIRST ALD - INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET IMMEDIATE MEDICAL ATTENTION. CHEMICAL NAME CAS NUMBER WEIGHT % LESS THAN STODDARD SOLVENTS 8052-41-3 40.0 FIRST AID - INGESTION: NIUM DIOXIDE 13463-67-7 ASPTRATTON HAZARD: LITE (NONASBESTIFORM) DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN ENTER THE LUNGS AND CAUSE SEVERE LUNG DAMAGE. GET IMMEDIATE MEDICAL 14567-73-8 20.0 MAGNESIUM SILICATE 14807-96-6 15.0 SERPENTINE 12135-86-3 15.0 - Section 5 - Fire Fighting measures -PIGMENT YELLOW 74 6358-31-2 10.0 FLASH POINT (SETAFLASH): 104 F PICMENT ORANGE 5 3468-63-1 5.0 LOWER EXPLOSIVE LIMIT: 0.7%
UPPER EXPLOSIVE LIMIT: 22.0% PIGMENT YELLOW 73 13515-10-7 5.0 PIGMENT BLACK 7 1333-86-4 5.0 EXTINGUISHING MEDIA: DRY CHEMICAL, FOAM, WATER FOG ANTHOPHYLITE (NONASBESTIFORM) UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP CONTAINERS TIGHTLY CLOSED. 17068-78-9 5.0 SPECIAL FIREFIGHTING PROCEDURES: EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILDUP AND POSSIBLE AUTOIGNITION OR XYLENE 1330-20-7 - SECTION 6 - ACCIDENTAL RELEASE MEASURES -STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAMDUST. DISPOSE OF ACCORDING TO LOCAL, STATE (PROVINCIAL) AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.

CHEMICAL NAME	ACGIH	ACGIH TLV-TWA	OSHA TLV-STEL	OSHA PEL-TWA	PEL- CEILING
STODDARD SOLVENIS		100 PPM	N.E.	500 PPM	N.E.
TITANIUM DIOXIDE		10 MG/M3	N.E.	10 MG/M3	N.E.
TREMOLITE (NONASBESTIFORM)		N.E.	N.E.	N.E.	N.E.
MAGNESIUM SILICATE		10 MG/M3	N.E.	15 MG/M3	N.E.
SERPENTINE.		N.E.	N.E.	N.E.	N.E.
PIGMENT YELLOW 74		N.E.	N.E.	N.E.	N.E.
PIGMENT ORANGE 5		2 MG/M3.	N.E.	5 MG/M3	N.E.
PIGMENT YELLOW 73		2 MG/M3	N.E.	2 MG/M3	N.E.
PIGMENT BLACK 7	3.5 MG/	M3 N.E.	3.5 MG/	MB N.E.	
ANTHOPHYLITE (NONASBESTIFO	RM) N.	E.	N.E.	N.E.	N.E.
XYLENE	100 PPN	1 150 PPN	1 100 PPN	N.E.	

- SECTION 3 - HAZARDS IDENTIFICATION -

NCY OVERVIEW:
LIF INHALED. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING
SS, HEADACHE OR NAUSEA. HARMFUL IF SWALLOWED. CAUSES EYE IRRITATION.
IRRITATING TO EYES AND RESPIRATORY TRACT. SUSPECT CANCER HAZARD.
OMBUSTIBLE LIQUID AND VAPOR.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: CAUSES EYE IRRITATION.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: MAY CAUSE SKIN IRRITATION.

- SECTION 7 - HANDLING AND STORAGE -

PREVENT BUILD-UP OF VAPORS BY OPENING ALL DOORS AND WINDOWS TO ACHIEVE CROSS-VENTILATION. USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OF OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS.

RESPIRATORY PROTECTION:
A NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDES OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN CIRCUMSTANCES WHERE AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE LIMITS.

PROTECTION PROVIDED BY AIR PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR AN

HANDI TNG

UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR ANY OTHER CIPCIMSTANCES WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE PROTECTION. A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.

SKIN PROTECTION:

NITRILE OR NEOPRENE GLOVES MAY AFFORD ADEQUATE SKIN PROTECTION. USE IMPERVIOUS GLOVES TO PREVENT SKIN CONTACT AND ABSORPTION OF THIS MATERIAL ROUGH THE SKIN.

PROTECTION

SAFETY EYEWEAR DESIGNED TO PROTECT AGAINST SPLASH OF LIQUIDS.

OTHER PROTECTIVE EQUIPMENT:

REFER TO SAFETY SUPERVISOR OR INDUSTRIAL HYGIENIST FOR FURTHER INFORMATION REGARDING PERSONAL PROTECTIVE EQUIPMENT AND ITS APPLICATION.

WASH THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING OR SMOKING.

- SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES -

BOILING RANGE: 212 - 900 F

VAPOR DENSITY: HEAVIER THAN AIR

ODOR - SOLVENT LIKE ODOR THRESHOLD: ND APPEARANCE: LIOUID

EVAPORATION RATE: SLOWER THAN EITHER

SOLUBILITY IN H2O: SLIGHT

FREEZE POINT: ND

SPECIFIC GRAVITY: 1.1000

VAPOR PRESSURE:

pH: NE

PHYSICAL STATE: LIQUID

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

- SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: AVOID ALL POSSIBLE SOURCES OF IGNITION.

INCOMPATIBLE WITH STRONG OXIDIZING AGENTS. STRONG ACTOS AND STRONG ALKALIES.

HAZARDOUS DECOMPOSITION:
WHEN HEATED TO DECOMPOSITION, IT EMITS ACRID SMOKE AND IRRITATING FUMES. BY
TLAME, CARBON MONOXIDE AND CARBON DIOXIDE.

COUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

.ABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

- SECTION 11 - TOXICOLOGICAL INFORMATION

PRODUCT LD50: ND

PRODUCT LC50 · ND

CHEMICAL NAME LD50 LC50 STODDARD SOLVENTS N.D.

N.D. TITANIUM DIOXIDE N.D. >7500 MG/KG (ORAL, RAT)

TREMOLITE (NONASBESTIFORM) N.D. N.D.

MAGNESIUM SILICATE TCLO:11 MG/M3 N.D. SERPENTINE N.D. N.D.

PIGMENT YELLOW 74 >15000 MG/KG (ORAL, RAT) N.D. PIGMENT ORANGE 5 N.D. N.D.

PIGMENT YELLOW 73 N.D.

>8000 MG/KG (ORAL, RAT) PIGMENT BLACK 7 N.D.

ANTHOPHYLITE (NONASBESTIFORM) N.D. N.D.

XYLENE N.D. N.D.

- SECTION 12 - ECOLOGICAL INFORMATION -

ECOLOGICAL INFORMATION: PRODUCT IS A MIXTURE OF LISTED COMPONENTS.

- SECTION 13 - DISPOSAL INFORMATION

DISPOSAL INFORMATION:

DISPOSE OF MATERIAL IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS AND ORDINANCES. DO NOT ALLOW TO ENTER STORM DRAINS OR SEWER SYSTEMS.

- SECTION 14 - TRANSPORTATION INFORMATION

OPER SHIPPING NAME: PAINT IT TECHNICAL NAME: OT HAZARD CLASS: 3 DOT UN/NA NUMBER: UN1263 PACKING GROUP: III HAZARD SUBCLASS: RESP. GUIDE PAGE: 128

- SECTION 15 - REGULATORY INFORMATION

CERCLA - SARA HAZARD CATEGORY:

THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENIMENT AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

CHEMICAL NAME CAS NUMBER

XYLENE

1330-20-7

TOXIC SUBSTANCES CONTROL ACT:

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE UNITED STATES:

NONE KNOWN

U.S. STATE REGULATIONS: AS FOLLOWS

NEW JERSEY RIGHT-TO-KNOW: THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE COMPONENTS IN THIS PRODUCT.

CHEMICAL NAME

CAS NUMBER

TALL OIL ALKYD RESIN PROPRIETARY

ALKYD RESIN

PROPRIETARY

PENNSYLVANIA RIGHT-TO-KNOW:

THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT GREATER THAN 3%.

CHEMICAL NAME

CAS NUMBER

TALL OIL ALKYD RESIN

PROPRIFTARY

ALKYD RESIN

PROPRIETARY

PICMENT RED 3

2425-85-6

CALCIUM CARBONATE YELLOW IRON OXIDE

1317-65-3 51274-00-1

ALKYD RESIN

PROPRIETARY

RED IRON OXIDE

1332-37-2

PIGMENT RED 170

2786-76-7

PIGMENT ORANGE 34

15793-73-4

CALIFORNIA PROPOSITION 65:

WARNING!

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN BY THE STATE OF CALIFORNIA TO CAUSE CANCER

THESE PRODUCTS CONTAIN NO KNOWN CHEMICALS KNOWN BY THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

INTERNATIONAL REGULATIONS: AS FOLLOWS

CANADIAN WHMIS:

THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT REGULATIONS EXCEPT FOR THE USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS: B3, D2B

- SECTION 16 - OTHER INFORMATION

HMIS RATINGS:

HEALTH

FLAMMABILITY

REACTIVITY 0 PERSONAL PROTECTION X

VOLATILE ORGANIC COMPOUNDS, G/L: 340 MAX

REASON FOR REVISION:

LEGEND:

N.A. - NOT APPLICABLE N.E. - NOT ESTABLISHED N.D. - NOT DETERMINED

THE INFORMATION CONTAINED ON THIS MSDS HAS BEEN CHECKED AND SHOULD BE ACCURATE. HOWEVER, IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.

## ORDER: 1039125@023JR74 - Paint Thinner Specific ApplicationHAZMAT: 3JR74

#### HAZARD MATERIAL WARNING SHEET (HAZMAT)

# When shipment is complete, retain for daily Hazmat audit

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GRAINGER SHIPPING INFORMATION
STOCK # : 3JR74
MSDS # : A9312
FREIGHT CODE : 0505
DOT PROPER SHIP NAME : ACETONE

FLASHPOINT : -20 DEGREES CELSIUS, -4 DEGREES FAHRENHEIT

UPS RESTRICTIONS : DO NOT SHIP UPS.

HAZARDOUS CLASS NUMBER : 3

UN ID # : UN1090 PACKING GROUP : II

SHIPPING LABEL : FLAMMABLE LIQUID

LIMITED QUANTITY : NO

CARTON INSTRUCTIONS : MUST SHIP IN ORIGINAL SHIPPACK ONLY

DOT/UPS EXEMPTION NO. :

COMMENTS : HAZARDOUS MATERIAL. DO NOT SHIP AIR!! SHIPPING LABEL

IS FLAMMABLE LIQUID. IF YOU OVERPACK, YOU MUST USE

THE 2S045 "OVERPACK" LABEL.

SHIPPING-PAPERS :

ACARD OFFERED ? YES ( ) NO ( ) PLEASE MARK ONE

ERG# ERG# 127

# ITEM: 3JR74 - Paint Thinner Specific Application

PICK\_REQ: 1039125002

### **MATERIAL SAFETY DATA SHEET (MSDS)**

MSDS: A9312

This MSDS should be attached or kept with the research safety Data SREET - A9312	espective product with which it is associated.
Occiated Grainger Item: 3JR74 - Paint Thinner Specific Application	SPECIAL FIREFIGHTING PROCEDURES: EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILDUP AND POSSIBLE AUTOIGNITION OR
MATERIAL SAFETY DATA SHEET	EXPLOSION.
24 HOUR ASSISTANCE: 1-847-367-7700	SECTION 6 - ACCIDENTAL RELEASE MEASURES
RUST-OLEUM CORP.	STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS
WWW.RUSTOLEUM.COM	SUCH AS SAMDUST. ELIMINATE ALL IGNITION SOURCES; USE EXPLOSION-PROOF EQUIPMENT. PLACE MATERIAL IN A CONTAINER AND DISPOSE OF ACCORDING TO LOCAL,
SECTION 1 - CHEMICAL PRODUCT/COMPANY INFORMATION	PROVINCIAL, STATE AND FEDERAL REGULATIONS.
PRODUCT NAME: RUST-OLEUM THINNER - 333	SECTION 7 - HANDLING AND STORAGE
IDENTIFICATION NUMBER: 333402	HANDLING:
PRODUCT USE/CLASS: THINNER	WASH HANDS BEFORE EATING. FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED BECAUSE IT MAY RETAIN PRODUCT RESIDUES. USE WITH
SUPPLIER:	ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.
RUST-OLEUM CORPORATION 11 HAWTHORN PARKWAY VERNON HILLS, II, 60061 USA	STORAGE: KEEP AWAY FROM HEAT, SPARKS, FLAME AND SOURCES OF IGNITION. KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME.
MANUFACTURER: RUST-OLEUM CORPORATION 11 HAWTHORN PARKWAY VERNON HILLS, IL 60061	SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ————————————————————————————————————
TTCA	USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS.
REVISION DATE: 02/27/2006	PREVENT BUILD-UP OF VAPORS BY OPENING ALL DOORS AND WINDOWS TO ACHIEVE CROSS-VENTILATION.
PREPARER: REGULATORY DEPARTMENT	RESPIRATORY PROTECTION:
SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS	A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A
CHEMICAL NAME CAS NUMBER WEIGHT % ACGIH ACGIH OSHA OSHA PEL- LESS THAN TLV-TWA TLV-STEL PEL-TWA CEILING	CIRCUMSTANCES WHERE AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE
ACETONE 67-64-1 100.0 500 PPM 750 PPM 750 PPM N.E.	LIMITS. PROTECTION PROVIDED BY AIR FURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR AN UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR ANY OTHER
SECTION 3 - HAZARDS IDENTIFICATION —	CIRCUMSTANCES WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADDQUATE PROTECTION.
EMERGENCY OVERVIEW:  MABLE LIQUID AND VAPOR. HIGH VAPOR CONCENTRATIONS CAN IRRITATE EYES, AND RESPIRATORY PASSACES. CAUSES NOSE AND THROAT IRRITATION. HARWFUL IF LED. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE LAUSEA. HARMFUL IF SWALLOWED. CAUSES EYE IRRITATION.	SKIN PROTECTION: NITRILE OR NEOPRENE GLOVES MAY AFFORD ADEQUATE SKIN PROTECTION. USE IMPERVIOUS GLOVES TO PREVENT SKIN CONTACT AND ABSORPTION OF THIS MATERIAL THROUGH THE SKIN.
EFFECTS OF OVEREXPOSURE - EYE CONTACT: CAUSES EYE IRRITATION.	EYE PROTECTION: USE SAFETY EYEWEAR DESIGNED TO PROTECT AGAINST SPLASH OF LIQUIDS.
EFFECTS OF OVEREXPOSURE - SKIN CONTACT: PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE IRRITATION.	OTHER PROTECTIVE EQUIPMENT: REFER TO SAFETY SUPERVISOR OR INDUSTRIAL HYGIENIST FOR FURTHER INFORMATION REGARDING PERSONAL PROTECTIVE EQUIPMENT AND ITS APPLICATION.
EFFECTS OF OVEREXPOSURE - INHALATION: HARMFUL IF INHALED. HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES; MOSE, THROAT AND LUNGS. MAY CAUSE HEADACHES AND DIZZINESS. AVOID EREATHING VAPORS OR MISTS.	HYGIENIC PRACTICES: WASH THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING OR SMOKING.
EFFECTS OF OVEREXPOSURE - INGESTION: ASPIRATION HAZARD IF SWALLOWED; CAN ENTER LUNGS AND CAUSE DAMAGE. HARMFUL IF	SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES
SWALLOWED.	BOILING RANGE: 69-133 F
EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO	VAPOR DENSITY: HEAVIER THAN AIR
SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.	ODOR: SOLVENT LIKE
PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT, SKIN ABSORPTION, INHALATION, EYE CONTACT	ODOR THRESHOLD: ND
	APPEARANCE: LIQUID
SECTION 4 - FIRST AID MEASURES	EVAPORATION RATE: SLOWER THAN ETHER
FIRST AID - EXE CONTACT: HOLD EYELIDS APART AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.	SOLUBILITY IN H2O: SLIGHT FREEZE POINT: ND
FIRST AID - SKIN CONTACT:	SPECIFIC GRAVITY: 0.8010
MASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.	VAPOR PRESSURE:
FIRST AID - INHALATION:	PH: NE
REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET IMMEDIATE MEDICAL ATTENTION.	PHYSICAL STATE: LIQUID
FIRST AID ~ INGESTION:	(SEE SECTION 16 FOR ABBREVIATION LEGEND)
ASPIRATION HAZARD: DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN	
ENTER THE LUNGS AND CAUSE SEVERE LUNG DAMAGE. GET IMMEDIATE MEDICAL ATTENTION.	SECTION 10 - STABILITY AND REACTIVITY
4000000 F 4000 6000000	CONDITIONS TO AVOID: AVOID ALL POSSIBLE SOURCES OF IGNITION.
SECTION 5 - FIRE FIGHTING MEASURES	INCOMPATIBILITY: INCOMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS AND STRONG ALKALIES.
F POINT (SETAFLASH): -4 F	HAZARDOUS DECOMPOSITION: WHEN HEATED TO DECOMPOSITION, IT EMITS ACRID SMOKE AND IRRITATING FUMES. BY
EXPLOSIVE LIMIT: 2.6% EXPLOSIVE LIMIT: 12.8%	OPEN FLAME, CARBON MONOXIDE AND CARBON DIOXIDE.
EXTINGUISHING MEDIA: DRY CHEMICAL, FOAM, WATER FOG	HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.
UNUSUAL FIRE AND EXPLOSION HAZARDS: ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME. VAPORS MAY	STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.
FORM EXPLOSIVE MIXTURES WITH AIR. VAPORS CAN TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK.	SECTION 11 - TOXICOLOGICAL INFORMATION

PRODUCT LD50: ND PRODUCT LC50: ND

CHEMICAL NAME LD50

LC50

ACETONE N.D. N.D.

- SECTION 12 - ECOLOGICAL INFORMATION -

LOGICAL INFORMATION: PRODUCT IS A MIXTURE OF LISTED COMPONENTS.

--- SECTION 13 - DISPOSAL INFORMATION -

DISPOSAL INFORMATION:

DISPOSE OF MATERIAL IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS AND ORDINANCES. DO NOT ALLOW TO ENTER STORM DRAINS OR SEWER SYSTEMS.

- SECTION 14 - TRANSPORTATION INFORMATION -

DOT PROPER SHIPPING NAME: ACETONE DOT TECHNICAL NAME: ACETONE
DOT TECHNICAL NAME: ACETONE
DOT HAZARD CLASS: 3
DOT UN/NA NUMBER: UN1090
PACKING GROUP: II
HAZARD SUBCLASS:
RESP. GUIDE PAGE: 127

- SECTION 15 - REGULATORY INFORMATION

CERCLA - SARA HAZARD CATEGORY:
THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES"
PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND
REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER
APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:
IMMEDIATE HEALTH HAZARD
CHRONIC HEALTH HAZARD
FIRE HAZARD

SARA SECTION 313: LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENIMENT AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372: NONE KNOWN

TOXIC SUBSTANCES CONTROL ACT: LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE UNITED STATES: NONE KNOWN

U.S. STATE REGULATIONS: AS FOLLOWS

NEW JERSEY RIGHT-TO-KNOW: THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE COMPONENTS IN THIS PRODUCT.: NONE

VSYLVANIA RIGHT-TO-KNOW: FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT ATER THAN 3%.: NONE

CALIFORNIA PROPOSITION 65: THESE PRODUCTS CONTAIN NO KNOWN CHEMICALS KNOWN BY THE STATE OF CALIFORNIA TO CAUSE CANCER. THESE PRODUCTS CONTAIN NO KNOWN CHEMICALS KNOWN BY THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

INTERNATIONAL REGULATIONS: AS FOLLOWS

CANADIAN WHMIS: THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT REGULATIONS EXCEPT FOR THE USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS: AB5, D2A, D2B

- SECTION 16 - OTHER INFORMATION -

HMIS RATINGS:

HEALTH: FLAMMABILITY: REACTIVITY:

PERSONAL PROTECTION: X

VOLATILE ORGANIC COMPOUNDS, G/L: NA

REASON FOR REVISION:

LEGEND:

N.A. - NOT APPLICABLE N.E. - NOT ESTABLISHED N.D. - NOT DETERMINED

THE INFORMATION CONTAINED ON THIS MSDS HAS BEEN CHECKED AND SHOULD BE ACCURATE. HOWEVER, IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.

## ORDER: 1042570260 ITEM: 1D270 - Paint/Decal Remover

**HAZMAT: 1D270** 

#### HAZARD MATERIAL WARNING SHEET (HAZMAT)

# When shipment is complete, retain for daily Hazmat audit

GRAINGER SHIPPING INFORMATION

STOCK #

: 1D270

MSDS #

: A8264

FREIGHT CODE

: 0811

DOT PROPER SHIP NAME : CONSUMER COMMODITY, ORM-D FLASHPOINT -18 DGS C, 0

DGS F

FLASHPOINT

: -18 DEGREES CELSIUS, O DEGREES FAHRENHEIT

UPS RESTRICTIONS

HAZARDOUS CLASS NUMBER : ORM-D

UN ID #

PACKING GROUP

SHIPPING LABEL

: Consumer Commodity ORM-D

LIMITED QUANTITY

: YES

CARTON INSTRUCTIONS

: CAN REPACK IN GRAINGER S CARTON

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

DOT/UPS EXEMPTION NO. :

COMMENTS

: HAZARDOUS MATERIAL. DO NOT SHIP AIR!!

SHIPPING-PAPERS

LACARD OFFERED ? YES ( ) NO ( ) PLEASE MARK ONE

- 45

### ITEM: 1D270 - Paint/Decal Remover

PICK REQ: 1042570260 MSDS: A8264 **MATERIAL SAFETY DATA SHEET (MSDS)** This MSDS should be attached or kept with the respective product with which it is associated.

\*\*RIAL SAPETY DATA SHEET - A8264

\*\*COCIACLE COLORS LATER, GET MEDICAL ATTENTION.

\*\*COCIACLE CONTAMINATED CLOTHING AND LAUNDER BEFORE RE-USE.\*\* ..... ociated Grainger Item: 1D270 - Paint/Decal Remover MATERIAL SAFETY DATA SHEET IF AFFECTED, REMOVE FROM EXPOSURE, RESTORE BREATHING. KEEP WARM AND OUIET. S00615 INGESTION: DO NOT INDUCE VOMITING.
GET MEDICAL ATTENTION IMMEDIATELY. 01 00 - SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION -- SECTION 5 - FIRE FIGHTING MEASURES PRODUCT NUMBER: S00615 FLASH POINT: PROPELLANT <0 F PRODUCT NAME: SPRAYON\* HEAVY DUTY PAINT REMOVER

HEALTH 3\* FLAMMABILITY 4 REACTIVITY MANUFACTURER'S NAME: THE SHERWIN-WILLIAMS COMPANY CONSUMER GROUP - INDUSTRIAL CLEVELAND, OH 44115

EMERGENCY TELEPHONE NO.: (216) 566-2917

INFORMATION TELEPHONE NO.: (800) 251-2486

DATE OF PREPARATION: 108-OCT-05

	- SECTION 2 - COM	POSITION/INFORMATION ON INGREDIEN	TS
% BY WT	CAS NO.	ingredient units	VAPOR PRESSUR
8	74-98-6	PROPANE ACGIH TLV: 2500 PPM OSHA PEL: 1000 PPM	760 MM
8	106-97-8	BUTANE ACGIH TLV: 800 PPM OSHA PEL: 800 PPM	760 MM
1	64742-88-7	MINERAL SPIRITS ACGIH TLV: 100 PPM OSHA PEL: 100 PPM	2 MM
	75-09-2	METHYLENE CHLORIDE ACGIH TLV: 50 PPM OSHA PEL: 25 PPM OSHA PEL: 125 PPM STEL	420 MM
9	67-63-0	2-PROPANOL ACGIH TLV: 400 PPM ACGIH TLV: 500 PPM STEL OSHA PEL: 400 PPM OSHA PEL: 500 PPM STEL	33 MM
1	141-43-5	ETHANOLAMINE  ACGIH TLV: 3 PPM  ACGIH TLV: 6 PPM STEL  OSHA PEL: 3 PPM  OSHA PEL: 6 PPM STEL	0.5 MM
	anana.		

- SECTION 3 - HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE:

INHALATION OF VAPOR OR SPRAY MIST.
EYE OR SKIN CONTACT WITH THE PRODUCT, VAPOR OR SPRAY MIST.

EFFECTS OF OVEREXPOSURE:

EYES: CAUSES BURNS.

SKIN: CAUSES BURNS.

INFIRITATION OF THE UPPER RESPIRATORY SYSTEM.
MAY CAUSE NERVOUS SYSTEM DEPRESSION. EXTREME OVEREXPOSURE MAY RESULT IN UNCONSCIOUSNESS AND POSSIBLY DEATH.

OVEREXPOSURE TO METHYLENE CHLORIDE CAN RAISE THE LEVEL OF CARBON MONOXIDE IN THE BLOOD.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: HEADACHE, DIZZINESS, NAUSEA, AND LOSS OF COORDINATION ARE INDICATIONS OF EXCESSIVE EXPOSURE TO VAPORS OR SPRAY MISTS.

REDNESS AND ITCHING OR BURNING SENSATION MAY INDICATE EYE OR EXCESSIVE SKIN EXPOSURE.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: CARDIOVASCULAR PROBLEMS MAY BE AGGRAVATED BY OVEREXPOSURE TO METHYLENE CHLORIDE.

R INFORMATION: OMPLETE DISCUSSION OF TOXICOLOGY DATA REFER TO SECTION 11.

- SECTION 4 - FIRST AID MEASURES

FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN:

UNUSUAL FIRE AND EXPLOSION HAZARDS: CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS.

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FOAM

DURING EMERGENCY CONDITIONS OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION.

SPECIAL FIRE FIGHTING PROCEDURES: FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED.

WATER SPRAY MAY BE INEFFECTIVE. IF WATER IS USED, FOG NOZZLES ARE PREFERABLE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTOIGNITION OR EXPLOSION WHEN EXPOSED TO

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION. VENTILATE THE AREA. REMOVE WITH INERT ABSORBENT.

- SECTION 7 - HANDLING AND STORAGE

STORAGE CATEGORY: NOT AVAILABLE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: KEEP AWAY FROM HEAT, "SPARKS," AND OPEN-FLAME. VAPORS WILL ACCUMULATE READILY AND MAY IGNITE EXPLOSIVELY.

DURING USE AND UNTIL ALL VAPORS ARE GONE: KEEP ARRA VENTILATED - DO NOT SMOKE - EXTINGUISH ALL FLAMES, PILOT LIGHTS, AND HEATERS - TURN OFF STOVES, ELECTRIC TOOLS AND APPLIANCES, AND ANY OTHER SOURCES OF IGNITION.

CONSULT NFPA CODE. USE APPROVED BONDING AND GROUNDING PROCEDURES.

CONTENTS UNDER PRESSURE. DO NOT PUNCTURE, INCINERATE, OR EXPOSE TO TEMPERATURE ABOVE 120F. HEAT FROM SUNLIGHT, RADIATORS, STOVES, HOT WATER, AND OTHER HEAT SOURCES COULD CAUSE CONTAINER TO BURST. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

- SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION -

PRECAUTIONS TO BE TAKEN IN USE:
BEFORE INITIAL USE, CONSULT OSHA'S 'STANDARD FOR OCCUPATIONAL EXPOSURE
TO METHYLENE CHLORIDE' (29 CFR 1910.1052).
USE ONLY WITH ADEQUATE VENTILATION.

DO NOT GET IN EYES OR ON SKIN. AVOID BREATHING VAPOR AND SPRAY MIST. WASH HANDS AFTER USING.

LOCAL EXHAUST PREFERABLE. GENERAL EXHAUST ACCEPTABLE IF THE EXPOSURE TO MATERIALS IN SECTION 2 IS MAINTAINED BELOW APPLICABLE EXPOSURE LIMITS. REFER TO OSHA STANDARDS 1910.94, 1910.107, 1910.108.

AN AIR SUPPLIED RESPIRATOR MUST BE WORN, UNLESS AIR MONITORING DEMONSTRATES VAPOR/MIST CONCENTRATIONS ARE BELOW PERMISSIBLE LI FOLLOW RESPIRATOR MANUFACTURER'S DIRECTIONS FOR RESPIRATOR USE. LIMITS.

PROTECTIVE GLOVES:

FOR INTERMITTENT EXPOSURE, WEAR VITON OR NITRILE GLOVES RECOMMENDED BY GLOVE MANUFACTURER FOR PROTECTION AGAINST MATERIALS IN SECTION 2. FOR IMMERSION, WEAR PVA GLOVES RECOMMENDED BY GLOVE MANUFACTURER.

EYE PROTECTION: TO PREVENT EYE CONTACT, WEAR SAFETY SPECTACLES WITH UNPERFORATED STDESHTELDS.

OTHER PROTECTIVE EQUIPMENT: USE BARRIER CREAM ON EXPOSED SKIN.

OTHER PRECAUTIONS: INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS CAN BE HARMFUL OR FATAL.

- SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES -

PRODUCT WEIGHT: 8.22 LB/GAL 984 G/L

SPECIFIC GRAVITY: 0.99

VOLATILE VOLUME: 98%

ORATION RATE: FASTER THAN ETHER R DENSITY: HEAVIER THAN AIR

SOLUBILITY IN WATER: N.A.

pH: 7.0

VOLATILE ORGANIC COMPOUNDS (VOC THEORETICAL): VOLATILE WEIGHT: 28.15 % LESS WATER AND FEDERALLY EXEMPT SOLVENTS

— SECTION 10 - STABILITY AND REACTIVITY —

STABILITY: STABLE

CONDITIONS TO AVOID: NONE KNOWN.

INCOMPATIBILITY: NONE KNOWN.

HAZARDOUS DECOMPOSITION PRODUCTS: BY FIRE: CARBON DIOXIDE, CARBON MONOXIDE, HYDROGEN CHLORIDE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

— SECTION 11 - TOXICOLOGICAL INFORMATION -

CHRONIC HEALTH HAZARDS:

CHINDLE HALLE IN ALMOST.

METHYLLENE CHLORIDE IS LISTED BY IARC, MTP, AND OSHA. LABORATORY ANIMALS EXPOSED TO HIGH LEVELS OF METHYLLENE CHLORIDE IN LIFETIME STUDIES HAVE DEVELOPED CANCER. THERE IS NO EVIDENCE TO DATE THAT METHYLENE CHLORIDE CAUSES CANCER IN HUMANS.

PROLONGED OVEREXPOSURE TO SOLVENT INGREDIENTS IN SECTION 2 MAY CAUSE ADVERSE EFFECTS TO THE LIVER, URINARY, CARDIOVASCULAR AND NERVOUS SYSTEMS.

REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.

TOXICOLOGY DATA:

CAS NO.

INGREDIENT NAME

74-98-6

PROPANE

LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: NOT AVAILABLE

106-97-8

BUTANE LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: NOT AVAILABLE

2-88-7

MINERAL SPIRITS LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: NOT AVAILABLE

75-09-2

LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: 1600 MG/KG

2-PROPANOL LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: 5045 MG/KG

67-63-0

141-43-5

ETHANOLAMINE LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: 2140 MG/KG

- SECTION 12 - ECOLOGICAL INFORMATION -

ECOTOXICOLOGICAL INFORMATION: NO DATA AVAILABLE.

- SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: WASTE FROM THIS PRODUCT MAY BE HAZARDOUS AS DEFINED UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) 40 CFR 261.

WASTE MUST BE TESTED FOR IGNITABILITY TO DETERMINE THE APPLICABLE EPA HAZARDOUS WASTE NUMBERS.

DO NOT INCINERATE. DEPRESSURIZE CONTAINER. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE/PROVINCIAL, AND LOCAL REGULATIONS REGARDING POLLUTION.

- SECTION 14 - TRANSPORT INFORMATION -

NO DATA AVAILABLE.

75-09-2

- SECTION 15 - REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION:

METHYLENE CHLORIDE

CAS NO. CHEMICAL/COMPOUND % BY WT 67

% ELEMENT

FORNIA PROPOSITION 65:

PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE ER.

ALL CHEMICALS IN THIS PRODUCT ARE LISTED, OR ARE EXEMPT FROM LISTING, ON THE TSCA INVENTORY.

- SECTION 16 - OTHER INFORMATION -

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS ALL OF THE INFORMATION REQUIRED BY THE CPR.

THE ABOVE INFORMATION PERTAINS TO THIS PRODUCT AS CURRENTLY FORMULATED, AND IS BASED ON THE INFORMATION AVAILABLE AT THIS TIME. ADDITION OF REDUCERS OR OTHER ADDITIONS TO THIS PRODUCT MAY SUBSTANTIALLY ALITER THE COMPOSITION AND HAZARDS OF THE PRODUCT. SINCE CONDITIONS OF USE ARE CUISIDE OUR CONTROL, WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, AND ASSUME NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION.

### ITEM: 2F934 - MARKER PAINT WHITE

MSDS: A7342

PICK REQ: 1129482439

#### **MATERIAL SAFETY DATA SHEET (MSDS)**

ciated Grainger Item: 2F934 - MARKER PAINT WHITE TNHAT ATTON: MEAT PRODUCE IRRITATION OF THE NOSE, THROAT, RESPIRATORY TRACT, AND MUCCUS
MEMBERANES. HIGH CONCENTRATIONS OF VAPOR MAY PRODUCE CENTRAL NERVOUS SYSTEM
DEPRESSION. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING MATERIAL SAFETY DATA SHEET THE CONTENTS MAY BE HARMFUL OR FATAL BARNES DISTRIBUTION 1301 E. 9TH STREET, #700 CLEVELAND, OH 44114 MISCRIJANEOUS: CLEVELAND, OH (800) 726-9626 SECTION 4 - FIRST AID MEASURES MSDS FORM NO.: 19136 IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. REMOVE CONTACT LENSES. GET MEDICAL ATTENTION. TTEM NO.: EYELIDS OPEN. MATERIAL SAFETY DATA SHEET REMOVE CONTAMINATED CLOTHING, WIPE EXCESS FROM SKIN, FLUSH SKIN WITH WATER OR WASH WITH SOAP AND WATER, CONSULT PHYSICIAN IF IRRITATION DEVELOPS. VALVE ACTION PAINT MARKER PART #: 19136 MEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

DO NOT INDUCE VOMITING. IF VOMITING IS SPONTANEOUSLY OCCURS, KEEP

THE VICTIM'S HEAD BELOW THE HIPS TO PREVENT ASPIRATION INTO THE LUNGS. - SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION -MSDS NAME: VALVE ACTION PAINT MARKER REMOVE VICTIM TO FRESH AIR. GIVE OXYGEN IF BREATHING IS DIFFICULT ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. GET MEDICAL ATTENTION BREATHING IS DIFFICULT, GIVE PRODUCT CAS: (NONE) PRODUCT CODE: TO PHYSICIAN: NOTES SYNONYMS: 19136; VALVE ACTION PAINT MARKER - SECTION 5 - FIRE FIGHTING MEASURES -COMPANY IDENTIFICATION: NAME: LA-CO INDUSTRIES, INC. / MARKAL COMPANY UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN. ADDRESS: 1201 PRATT BLVD. SPECIAL FIREFIGHTING PROCEDURES SPECIAL FIRSTORIES PROCEDURES:

KEEP PERSONNEL REMOVED AND URWIND OF ANY FIRE. WEAR FULL FIRE FIGHTING

TURN-OUT GEAR (FULL BUNKER GEAR), AND RESPIRATORY PROTECTION (SCEA).

CONTAINERS EXPOSED TO INTENSE HEAT SHOULD BE COOLED WITH WATER TO PREVENT

PRESSURE BUILDUR, WHICH COULD RESULT ON COMMANIER RUPTURE CONTAINER AREAS

EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF CITY: ELK GROVE VILLAGE STATE: IL ZIP: 60007-5746 AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE FOR INFORMATION, CALL: 847-956-7600 EXTINGUISHING MEDIA: WATER FOG, FOAM, DRY CHEMICAL, CARBON DIOXIDE. EMERGENCY NUMBER: 800-424-9300 FLASH POINT: 73 DEG F/23 DEG C (SETFLASH) EMERGENCY AGENCY: FLAMMABLE LIMITS: LOWER LIMIT: UPPER LIMIT: N.D. CREATION DATE: 4/21/2004 SEDES DATE: AUTOTGNITION TEMPERATURE: GENERAL INFORMATION: - SECTION 2 - COMPOSITION, INFORMATION ON INCREDIENTS CAS MICAL NAME MIN MAX - SECTION 6 - ACCIDENTAL RELEASE MEASURES MINERAL SPIRITS 64742-88-7 ACCORDANCE WITH ALL APPLICABLE REGULATIONS. 30 50 DISPOSAL: DISPOSE OF IN SPILLS/LEAKS: TAKE UP SPILL VM&P NAPHTHA 8032-32-4 10 30 Take up spill with abscreent material and place in an non-leaking container. Seal container for proper disposal. XYLENE 1330-20-7 5 10 MISCELLANEOUS: - SECTION 7 - HANDLING AND STORAGE -CHEMICAL ACCIH TWA HANDLING: TWA 300 PPM (1370 MG/M3) HANDLE AS A FLAMMABLE LIQUID, DO NOT DROP CONTAINER, READ ALL LABEL CAUTIONS. DO CUT, WELD, GRIND OR DRILL NEAR CONTAINERS. VM&P XYLENE TWA 100 PPM STEL = 150 PPM STORAGE: LBS OF VOC PER GALLON COATING (MINUS WATER): 0 FROM IGNITION SOURCES, IN A COOL, WELL VENTILATED AREA.
AWAY FROM INCOMPATIBLE CHEMICALS. COATING DENSITY (LBS/GAL): 0 SOLVENT DENSITY (LBS/GAL): 0 SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION -PERCENT SOLVENT (VOLUME):
PERCENT SOLIDS (VOLUME):
PERCENT WATER (VOLUME): 0 ENGINEERING CONTROLS: LOCAL EXHAUST. EYES: SAFETY GLASSES. - SECTION 3 - HAZARDS IDENTIFICATION SKIN: USE IMPERVIOUS GLOVES. NFPA: HEALTH CLOTHING: EYEWASH OR AND SAFETY SHOWER. FIRE RESPIRATORS: USE A NIOSH/MSHA APPROVED BODY COVERING CLOTHING AS NEEDED. REACTIVITY 1 - SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES -HMTS: HEALTH APPEARANCE/ODOR: ORGANIC SOLVENT FIRE REACTIVITY DH: N.A. SPECIAL PROTECTION VAPOR PRESSURE: 9.5 FOR XYLENE POTENTIAL HEALTH EFFECTS: VAPOR DENSITY: N.D. TARGET ORGANS: EYES, SKIN, INGESTION, INHALATION. EVAPORATION RATE: 0.75 FOR XYLENE OUID AND VAPORS CAN IRRITATE EYES. VISCOSITY: N.A. RODUCE SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY RESULT BOILING POINT: 244 DEG F/118 DEG C FOR VM&P NAPHIHA FREEZING/MEUTING POINT: N.A.

DECOMPOSITION TEMPERATURE: N.A.

PRODUCT IS RESUMED TO BE SLIGHTLY TOXIC. MAY CAUSE NERVOUS SYSTEM DEPRESSION. SMALL AMOUNTS OF LIQUID ASPIRATED IN TO THE LUNGS DURING

SPECIFIC GRAVITY: 1.1
MOLECULAR FORMULA: N.A.
MOLECULAR WEIGHT: N.A.
YILANEOUS:
50% W/W -70% V/V
SECTION 10 - STABILITY AND REACTIVITY
CHEMICAL STABILITY: STABLE
CONDITIONS TO AVOID: NOVE.
INCOMPATIBILITIES WITH OTHER MATERIALS: OXIDIZERS
HAZARDOUS DECOMPOSITION PRODUCTS: N.D.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.
SECTION 11 - TOXICOLOGICAL INFORMATION -
TOXICOLOGICAL INFORMATION: NO DATA
SECTION 12 - ECOLOGICAL INFORMATION
ECOLOGICAL INFORMATION: NO DATA
SECTION 13 - OTHER PRECAUTIONS
OTHER PRECAUTIONS: NO DATA
WORK/HYGIENIC PRACTICES: WASH HANDS AFTER USE.
SECTION 14 - TRANSPORT INFORMATION
TRANSPORTATION INFORMATION: D.O.T. US CONSUMER COMMODITY ORM-D (LESS THAN 30 KG ROSS PACKAGE WEIGHT) COMMUSTIBLE LIQUID, N.O.S. HAZARD CLASS 3, UN NO 1993, PACKING GROUP III (GREATER THAN 30 KG GROSS PACKAGE WEIGHT). TDG (CANADA) CONSUMER COMMODITY ORM-D (LESS THAN 30 KG GROSS PACKAGE WEIGHT) COMMUSTIBLE LIQUID, N.O.S. HAZARD CLASS 3, UN NO 1993, PACKAGING GROUP III (GREATER THAN 30 KG GROSS PACKAGE WEIGHT).
(GREATER THAN 30 KG GROSS PACKAGE WEIGHT).  INTERNATIONAL MARITIME ORGANIZATION (IMO) EXEMPT (<.51/MARKER)
INTERNATIONAL AIR TRANSPORT FLAMMABLE LIQUIDS N.O.S. UN NO 1993 ADR: UN 1263 CLASS 3
1 31 DEG C 7D IDEMIFICATION NO 30 C TREMCARD IS NOT APPLICABLE 2: NOT DETERMINED
RALIAN CODE FOR THE TRANSPORT OR DANGEROUS GOODS:
EROUS GOOD CLASS AND SUBSIDIARY RISK: NOT DETERMINED.  LABEL INFORMATION: NO DATA
THE DIVINE THE PAIR
SECTION 15 - REGULATORY INFORMATION
REGULATORY INFORMATION:  APPEARS ON THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT  ACT (PROP 65) SUBSTANCES LIST.  APPEARS ON THE MASSACHUSETTS SUBSTANCES LIST.  APPEARS ON THE NEW JERSEY RICHT-TO-KNOW HAZARDOUS SUBSTANCE LIST.  APPEARS ON THE CANADIAN WHMIS INGREDIENTS DISCLOSURE LIST.
U.S.A.:
OSHA HAZARD STATUS: THIS PRODUCT IS CONSIDERED TO BE HAZARDOUS AS DEFINED BY THE U.S. OSHA HCS (29 CFR 1910.1200).
EPA SARA SEC 311/312 HAZARD CATEGORIES: IMMEDIATE (ACUTE) HEALTH HAZARD, FIRE HAZARD
TOXIC SUBSTANCES CONTROL ACT (TSCA) ALL INGREDIENTS CONTAINED IN THIS PRODUCT ARE LISTED ON THE U.S. EPA TSCA CHEMICAL SUBSTANCE INVENTORY.
CANADA:
WHMIS STATUS: THIS PRODUCT IS CONSIDERED TO BE HAZARDOUS AS DEFINED BY CANADIAN WHMIS CONTROLLED PRODUCTS REGULATIONS
WHMIS RATING: D-1B, B-2
WHMIS PRECAUTIONARY STATEMENT: NONE REQUIRED.
E.U.: EUROPEAN INVENTORY OF EXISTING CHEMICAL SUBSTANCES: ALL INCREDIENTS CONTAINED IN THIS PRODUCT ARE LISTED ON THE EUROPEAN INVENTORY OF EXISTING CHEMICALS SUBSTANCES (EINECS). CATEGORIES OF DANGER LABELING INFORMATION; FLAMMABLE (F) HARMFUL (XN) RISK (R).
AUSTRALIA: WORKSAFE AUSTRALIA STATUS: THE PRODUCT IS CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE LIA.
SECTION 16 - ADDITIONAL INFORMATION
ADI ATONAL INFORMATION: NO DATA

SOLUBILITY: IN WATER: INSOLUBLE

49-

### ITEM: 2F936 - MARKER PAINT YELLOW

MSDS: A7342

PICK REO: 1129482439

**MATERIAL SAFETY DATA SHEET (MSDS)** 

This MSDS should be attached or kept with the respective product with which it is associated. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ociated Grainger Item: 2F936 - MARKER PAINT YELLOW INHALATION: MAT PRODUCE IRRITATION OF THE NOSE, THROAT, RESPIRATORY TRACT, AND MUCOUS MEMBRANES. HIGH CONCENTRATIONS OF VAPOR MAY PRODUCE CENTRAL NERVOUS SYSTEM DEPRESSION. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING MATERIAL SAFETY DATA SHEET THE CONTENTS MAY BE HARMFUL OR FATAL. BARNES DISTRIBUTION 1301 E. 9TH STREET, #700 CLEVELAND, OH 44114 (800) 726-9626 MISCELLANEOUS: - SECTION 4 - FIRST AID MEASURES -MSDS FORM NO.: 19136 IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. REMOVE CONTACT LENSES. GET MEDICAL ATTENTION. TITEM NO. : MATERIAL SAFETY DATA SHEET SKIN: REMOVE COMPANINATED CLOTHING. WIPE EXCESS FROM SKIN. FLUSH SKIN WITH CR WASH WITH SOAP AND WATER. CONSULT PHYSICIAN IF IRRITATION DEVELOPS FILISH SKIN WITH WATER VALVE ACTION PAINT MARKER PART #: 19136 INCESTION: NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.
DO NOT INDUCE VOMITING. IF VOMITING IS SPONTANEOUSLY OCCURS, KEEP
THE VICTIM'S HEAD BELOW THE HIPS TO PREVENT ASPIRATION INTO THE LUNGS. SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION MSDS NAME: VALVE ACTION PAINT MARKER INHALATION:
REMOVE VICTIM TO FRESH AIR. GIVE OXYGEN IF REPATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF EREATHING HAS STOPPED. GET MEDICAL ATTENTION. PRODUCT CAS: (NONE) PRODUCT CODE: TO PHYSICIAN: SYNONYMS: 19136; VALVE ACTION PAINT MARKER COMPANY IDENTIFICATION: — SECTION 5 - FIRE FIGHTING MEASURES -EXPLOSION HAZARDS: NONE KNOWN. NAME: LA-CO INDUSTRIES, INC. / MARKAL COMPANY UNUSUAL FIRE AND SPECIAL FIREFIGHTING PROCEDURES:
KEEP PERSONNEL REMOVED AND UEWIND OF ANY FIRE. WEAR FULL FIRE FIGHTING
TURN-OUT GEAR (FULL EUNKER GEAR), AND RESPIRATIORY PROTECTION (SCBA).
CONTAINERS EXPOSED TO INTENSE HEAT SHOULD BE COOLED WITH WATER TO PREVENT
PRESSURE BUILDUP, WHICH COULD RESULT ON CONTAINER RUPTURE CONTAINER AREAS
EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF
WATER AS NEEDED TO FREVENT WEAKENING OF CONTAINER STRUCTURE. ADDRESS: 1201 PRATT BLVD. ADDRESS: CITY: ELK GROVE VILLAGE STATE: IL STATE: IL ZIP: 60007-5746 FOR INFORMATION, CALL: 847-956-7600 EXTINGUISHING MEDIA: WATER FOG, FOAM, DRY CHEMICAL, CARBON DIOXIDE. EMERGENCY NUMBER: 800-424-9300 FLASH POINT: 73 DEG F/23 DEG C (SETFLASH) EMERGENCY AGENCY: FLAMMABLE LIMITS: LIMIT: N.D. UPPER LIMIT: N.D. CREATION DATE: 4/21/2004 ARSEDES DATE: AUTOIGNITION TEMPERATURE: GENERAL INFORMATION: - SECTION 2 - COMPOSITION, INFORMATION ON INCREDIENTS CHEMICAL NAME CAS MTN MAX - SECTION 6 - ACCIDENTAL RELEASE MEASURES MINERAL SPIRITS 64742-88-7 30 50 DISPOSAL: DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. VM&P NAPHTHA 8032-32-4 10 30 SPILLS/LEAKS: Take up spill with absorbent material and place in an non-leaking container. Seal container for proper disposal. XYLENE 1330-20-7 10 MISCELLANEOUS: - SECTION 7 - HANDLING AND STORAGE CHEMICAL ACGIH TWA HANDLING: VM&P HANDLE AS A FLAMMABLE LIQUID. DO NOT DROP CONTAINER. READ ALL LABEL CAUTIONS. DO CUT, WELD, GRIND OR DRILL NEAR CONTAINERS. TWA 300 PPM (1370 MG/M3) XYLENE TWA 100 PPM STEL = 150 PPM STORAGE LBS OF VOC PER GALLON COATING (MINUS WATER): 0 STORE AWAY FROM IGNITION SOURCES, IN A COOL, WELL VENTILATED AREA.
STORE AWAY FROM INCOMPATIBLE CHEMICALS. COATING DENSITY (LBS/GAL): 0 SOLVENT DENSITY (LBS/GAL): 0 SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION -PERCENT SOLVENT (VOLUME): PERCENT SOLIDS (VOLUME): PERCENT WATER (VOLUME): 0 ENGINEERING CONTROLS: LOCAL EXHAUST. EVES. SAFETY GLASSES. - SECTION 3 - HAZARDS IDENTIFICATION SKIN: USE IMPERVIOUS GLOVES. NFPA: CLOTHING: EYEWASH OR AND SAFETY SHOWER. HEALTH FIRE REACTIVITY 1 RESPIRATORS: USE A NIOSH/MSHA APPROVED BODY COVERING CLOTHING AS NEEDED. OTHER - SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES HMIS: HEALTH APPEARANCE/ODOR: ORGANIC SOLVENT FIRE REACTIVITY pH: N.A. SPECIAL PROTECTION VAPOR PRESSURE: 9.5 FOR XYLENE POTENTIAL HEALTH EFFECTS: VAPOR DENSITY: N.D. T ORGANS: EYES, SKIN, INGESTION, INHALATION. EVAPORATION RATE: 0.75 FOR XYLENE LIQUID AND VAPORS CAN IRRITATE EYES.

- 50 -

M. RODUCE SKIN IRRITATION, PROLONGED OR REPEATED CONTACT MAY RESULT IN DEFAITING AND DRYING OF SKIN, WHICH MAY RESULT IN DEFMATITIS.

PRODUCT IS RESUMED TO BE SLIGHTLY TOXIC. MAY CAUSE NERVOUS SYSTEM DEPRESSION. SMALL AMOUNTS OF LIQUID ASPIRATED IN TO THE LUNGS DURING

VISCOSITY: N.A.

BOILING POINT: 244 DEG F/118 DEG

FREEZING/MELITING POINT: N.A.

DECOMPOSITION TEMPERATURE: N.A.

C FOR VM&P NAPHTHA

SPECIFIC GRAVITY: 1.1
MOLECULAR FORMULA: N.A.
MOLECULAR WEIGHT: N.A.
FILLANEOUS:
60% W/W 6-70% V/V
SECTION 10 - STABILITY AND REACTIVITY
CHEMICAL STABILITY: STABLE
CONDITIONS TO AVOID: NONE.
INCOMPATIBILITIES WITH OTHER MATERIALS: OXIDIZERS
HAZARDOUS DECOMPOSITION PRODUCTS: N.D.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.
SECTION 11 - TOXICOLOGICAL INFORMATION
TOXICOLOGICAL, INFORMATION: NO DATA
SECTION 12 - ECOLOGICAL INFORMATION -
ECOLOGICAL INFORMATION: NO DATA
SECTION 13 - OTHER PRECAUTIONS
OTHER PRECAUTIONS: NO DATA
WORK/HYGIENIC PRACTICES: WASH HANDS AFTER USE.
SECTION 14 - TRANSPORT INFORMATION
TRANSPORTATION INFORMATION: D.O.T. US CONSUMER COMMODITY ORM-D (LESS THAN 30 KG ROSS PACKAGE WEIGHT)
COMBUSTIBLE LIQUID, N.O.S. HAZARD CLASS 3, UN NO 1993, PACKING GROUP III (GREATER THAN 30 KG GROSS PACKAGE WEIGHT)
TDG (CANADA) CONSUMER COMMODITY ORM-D (LESS THAN 30 KG GROSS PACKAGE WEIGHT
D.O.T. US CONSIMER COMMODITY ORM-D (LESS THAN 30 KG KOSS PALKALE WELLER!) COMPUSTRIBLE LIQUID, N.O.S. HAZARD CLASS 3, UN NO 1993, PACKING GROUP III (GREATER THAN 30 KG GROSS PACKAGE WEIGHT) TDG (CANADA) CONSUMER COMMODITY ORM-D (LESS THAN 30 KG GROSS PACKAGE WEIGHT) COMPUSTRIBLE LIQUID, N.O.S. HAZARD CLASS 3, UN NO 1993, PACKAGING GROUP III (GREATER THAN 30 KG GROSS PACKAGE WEIGHT).
INTERNATIONAL MARITIME ORGANIZATION (IMO) EXEMPT (<.51/MARKER) INTERNATIONAL AIR TRANSPORT FLAMMABLE LIQUIDS N.O.S.
INTERNATIONAL AIR TRANSPORT FLAMMABLE LIQUIDS N.O.S. UN NO 1993 ADR: UN 1263
31 DBG C
RD IDENTIFICATION NO 30 C TREMCARD IS NOT APPLICABLE
C TREMCARD IS NOT APPLICABLE 2: NOT DETERMINED
RALIAN CODE FOR THE TRANSPORT OR DANGEROUS GOODS:  ROUS GOOD CLASS AND SUBSIDIARY RISK: NOT DETERMINED.
LABEL INFORMATION: NO DATA
CTO/MITCALL SE DESCRIPTION TATEOGRAPHY
SECTION 15 - REGULATORY INFORMATION —
REGULATORY INFORMATION: APPEARS ON THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT
ACT (PROP 65) SUBSTANCES LIST. APPEARS ON THE MASSACHUSETTS SUBSTANCES LIST.
APPEARS ON THE NEW JERSEY RIGHT-TO-KNOW HAZARDOUS SUBSTANCE LIST.  APPEARS ON THE PENNSYLVANIA HAZARDOUS SUBSTANCES LIST.
APPEARS ON THE CANADIAN WHMIS INGREDIENTS DISCLOSURE LIST.
U.S.A.: OSHA HAZARD STATUS:
THIS PRODUCT IS CONSIDERED TO BE HAZARDOUS AS DEFINED BY THE U.S. OSHA HCS (29 CFR 1910.1200).
EPA SARA SEC 311/312 HAZARD CATEGORIES: IMMEDIATE (ACUTE) HEALTH HAZARD, FIRE HAZARD
TOXIC SUBSTANCES CONTROL ACT (TSCA) ALL INGREDIENTS CONTAINED IN THIS
PRODUCT ARE LISTED ON THE U.S. EPA TSCA CHEMICAL SUBSTANCE INVENTORY.
CANADA: WHMIS STATUS:
WHILS SINGUET IS CONSIDERED TO BE HAZARDOUS AS DEFINED BY CANADIAN WHMIS CONTROLLED PRODUCTS REGULATIONS
WHMIS RATING: D-1B, B-2
WHMIS PRECAUTIONARY STATEMENT: NONE REQUIRED.
E.U.:
SUROPEAN INVENTORY OF EXISTING CHEMICAL SUBSTANCES: ALL INGREDIENTS CONTAINED IN THIS PRODUCT ARE LISTED ON THE EUROPEAN INVENTORY OF EXISTING CHEMICALS SUBSTANCES (EINECS). CATEGORIES OF DANCER LABELING INFORMATION; FLAMMABLE (F) HARMFUL (XN) RISK (R).
AUSTRALIA: MORKSAFE AUSTRALIA STATUS: PRODUCT IS (LASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE ALIA.
SECTION 16 - ADDITIONAL INFORMATION
AD ATIONAL INFORMATION: NO DATA

- SOLUBILITY: IN WATER: INSOLUBLE

## ITEM: 5ZR08 - GAUGE LIQUID FILLED

## PICK\_REQ: 1110051723

### **MATERIAL SAFETY DATA SHEET (MSDS)**

MSDS: A6193

This MSDS should be attached or kept with the r	espective product with which it is associated.
riated Grainger Item: 5ZRO8 - GAUGE LIQUID FILLED	EYES: FLUSH EYES WITH PLENTY OF WATER.
18696, 18698, 18700, 18702, 18704, 18706, 18708, 18710, 18712, 18714, 18716	SKIN: WASH OFF IN FLOWING WATER OR SHOWER.
1X718, 1X720, 1X722, 1X724, 2A211, 2P846, 2P847, 2P848, 2P849, 2P850, 2P851 3A420, 4A370, 4A371, 4A372, 5A041, 5A042, 5A043, 5A044, 5A045, 5HKS1, 5HKS2, 5HKS3, 5HKS4, 5HKS5, 5HKS6, 5HK	INGESTION: IF SWALLOWED, SEEK MEDICAL ATTENTION. DO NOT INDUCE VOMITING UNLESS DIRECT TO DO SO BY MEDICAL PERSONNEL.
5X270, 5X371, 5X938, 5X939, 5XP52, 5XP54, 5XP56, 5XP58, 5XP60, 5XP62, 5XP65 5XP67, 5XP68, 5XP69, 5XP70, 5XP71, 5XP72, 5XP73, 5XP74, 5XP75, 5XP76, 5XP77	INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT A PHYSICIAN.
\$\frac{5XP80}{5XP81}\$, \$\frac{5XP86}{5XP86}\$, \$\frac{5XP87}{5XP89}\$, \$\frac{5XP89}{5XP89}\$, \$\frac{5ZP69}{5ZP70}\$, \$\frac{5ZP70}{5ZP71}\$, \$\frac{5ZP73}{5ZP74}\$, \$\frac{5ZP76}{5ZP76}\$, \$\frac{5ZP77}{5ZP92}\$, \$\frac{5ZP99}{5ZP93}\$, \$\frac{5ZP94}{5ZP95}\$, \$\frac{5ZP94}{5ZP95}\$, \$\frac{5ZP94}{5ZP95}\$, \$\frac{5ZP94}{5ZP95}\$, \$\frac{5ZP94}{5ZP95}\$, \$\frac{5ZP97}{5ZP96}\$, \$\frac{5ZP97}{5ZP95}\$,	NOTE TO PHYSICIAN: NO SPECIFIC ANTIDOTE. SUPPORTIVE CARE. TREATMENT BASED ON JUDGMENT OF THE PHYSICIAN IN RESPONSE TO REACTIONS OF THE PATTIENT.
REPORT NUMBER: 703	5. FIRE FIGHTING MEASURES
MSDS NO: DZ08439 MAINFRAME UPLOAD DATE: 02/18/03	FLAMMABLE PROPERTIES:
UNIVAR USA INC. MATERIAL SAFETY DATA SHEET	FLASH POINT: 390 F, 199C METHOD USED: FMCC
VERSION: 007 PRODUCT: GLYCERINE	AUTOIGNITION TEMPERATURE: 698 F, 370 C.
UNIVAR USA INC. 6100 CARILLON POINT KIRKLAND, WA 98033	FLAMMABILITY LIMITS: LFL: NOT DETERMINED. UFL: NOT DETERMINED.
(425) 889-3400 EMERGENCY ASSISTANCE: FOR EMERGENCY ASSISTANCE INVOLVING CHEMICALS CALL - CHEMIREC: (800) 424-9300	HAZARDOUS COMBUSTION PRODUCTS: DURING A FIRE, SMOKE MAY CONTAIN THE ORIGINAL MATERIAL IN ADDITION TO UNIDENTIFIED TOXIC AND/OR IRRITATING COMPOUNDS, HAZARDOUS COMBUSTION PRODUCTS MAY INCLUDE AND ARE NOT LIMITED TO: ALIDEHYDES, CARBON MONOXIDE, CARBON DIOXIDE.
PRODUCT IDENTIFICATION:	OTHER FLAMMABILITY INFORMATION:
PRODUCT NAME: GLYCERINE	VIOLENT STEAM GENERATION OR ERUPTION MAY OCCUR UPON APPLICATION OF DIRECT WATER STREAM.
MSDS#: DZ08439  DATE ISSUED: 07/10/00	EXTINGUISHING MEDIA: WATTER FOG OR FINE SPRAY, CARBON DIOXIDE, DRY CHEMICAL, FOAM. ALCOHOL RESISTANT FOAMS (ATC TYPE) OR FROTEIN FOAMS MAY FUNCTION, BUT MUCH LESS
SUPERSEDES: NEW ISSUED BY: 008360	EFFECTIVELY. DO NOT USE DIRECT WATER STREAM. WILL SPREAD FIRE. MEDIA TO BE AVOIDED: DO NOT USE DIRECT WATER STREAM.
1550ED B1: 000360	FIRE FIGHTING INSTRUCTIONS:
1. CHEMICAL PRODUCT IDENTIFICATION	KEEP PEOPLE AWAY. ISOLATE FIRE AREA AND DENY UNNECESSARY ENTRY, EURNING LIQUIDS MAY BE MOVED BY FLUSHING WITH WATER TO PROTECT PERSONNEL AND
UR EMERGENCY PHONE NUMBER: 989-636-4400	MINIMIZE PROPERTY DAMAGE. BURNING LIQUIDS MAY BE EXTINGUISHED BY DILUTION WITH WATER. DO NOT USE DIRECT WATER STREAM. MAY SPREAD FIRE.
CT: GLYCERINE	PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND
2. COMPOSITION/INFORMATION ON INGREDIENTS	PROTECTIVE FIRE FIGHTING CLOTHING (INCLUDES FIRE FIGHTING HEIMET, COAT, PANTS, BOOTS, AND GLOVES. IF PROTECTIVE EQUIPMENT IS NOT AVAILABLE OR
	NOT USED, FIGHT FIRE FROM A PROTECTED LOCATION OR SAFE DISTANCE.
3. HAZARDS IDENTIFICATION	6. ACCIDENTAL RELEASE MEASURES
EMERGENCY OVERVIEW: WATER WHITE LIQUID. ODORLESS. NO SIGNIFICANT HAZARDS FOR EMERGENCY RESPONSE ARE KNOWN.	(SEE SECTION 15 FOR REGULATORY INFORMATION) PROTECT PEOPLE: REEP UNNECESSARY PEOPLE AWAY; ISOLATE HAZARD AREA AND DENY UNNECESSARY
POTENTIAL HEALTH EFFECTS (SEE SECTION 11 FOR TOXICOLOGICAL DATA.)	ENTRY.  PROTECT THE ENVIRONMENT: KEEP OUT OF SEMERS, STORM DRAINS, SURFACE WATER AND SOIL.
EYE: MAY CAUSE SLIGHT TRANSIENT (TEMPORARY) EYE IRRITATION. CORNEAL INJURY IS UNLIKELY.	CLEANUP: SMAIL SPILLS: COVER WITH ABSORBENT MATERIAL, SOAK UP AND SWEEP INTO A DRUM.
SKIN: PROLONGED OR REPEATED EXPOSURE NOT LIKELY TO CAUSE SIGNIFICANT SKIN	LARGE SPILLS: DIKE AROUND SPILL AND PUMP INTO SUITABLE CONTAINERS.
IRRITATION, A SINGLE PROLONGED EXPOSURE IS NOT LIKELY TO RESULT IN THE	7. HANDLING AND STORAGE
IN POTENTIALLY HARMFUL AMOUNTS WHEN APPLIED IN LARGE QUANTITIES TO SEVERE BURNS (SECOND OR THIRD DEGREE) OVER LARGE AREAS OF THE BODY AS PART OF A	HANDLING: PRACTICE REASONABLE CARE AND CAUTION.
CREAM OR OTHER TOPICAL APPLICATION. ABSORPTION UNDER SUCH CIRCUMSTANCES CAN ELEVATE SERUM OSMOLALITY AND MAY RESULT IN OSCMOTIC SHOCK.	STORAGE: GLYCERINE FREEZES AT 64F, GLYCERINE SHOULD BE KEPT ABOVE 64F BUT BELOW 130F.
INGESTION: SINGLE DOSE ORAL TOXICITY IS CONSIDERED TO BE EXTREMELY LOW. SMALL AMOUNTS SWALLOWED INCIDENTAL TO NORWAL HANDLING OPERATIONS ARE NOT LIKELY TO CAUSE	8. EXPOSURE CONTROLS/PERSONAL PROTECTION
INJURY; SWALLOWING AMOUNTS LARGER THAN THAT MAY CAUSE INJURY; STANS AND SYMPTOMS OF EXCESSIVE EXPOSURE MAY BE CENTRAL NERVOUS SYSTEM EFFECTS AND INCREASED BLOOD SUGAR LEVELS.	ENGINEERING CONTROLS: PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION TO CONTROL AIRBORNE LEVELS BELOW THE EXPOSURE GUIDELINES.
INHALATION: AT ROOM TEMPERATURE, VAPORS ARE MINIMAL DUE TO PHYSICAL PROPERTIES. IF HEATED OR SPRAYED AS AN AEROSOL, AIRBORNE MATERIAL MAY CAUSE UPPER	PERSONAL PROTECTIVE EQUIPMENT:
IF HEATED OR SPRAYED AS AN AEROSOL, AIRBORNE MATERIAL MAY CAUSE UPPER RESPIRATORY IRRITATION.	EYE/FACE PROTECTION: USE SAFETY GLASSES.
SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: REPEATED EXCESSIVE EXPOSURES MAY CAUSE INCREASED FAT LEVELS IN BLOOD. OBSERVATIONS IN ANIMALS INCLUDE KIDNEY, LIVER, AND GASTROINTESTINAL	SKIN PROTECTION: NO PRECAUTIONS OTHER THAN CLEAN BODY-COVERING CLOTHING SHOULD BE NEEDED.
EFFECTS WITH VERY LARGE ORAL DOSES.  CANCER INFORMATION: DID NOT CAUSE CANCER IN LONG-TERM ANIMAL STUDIES.	RESPIRATORY PROTECTION: FOR MOST CONDITIONS, NO RESPIRATORY PROTECTION SHOULD HE NEEDED; HOWEVER, IF MATERIAL IS HEATED OR SPRAYED, USE AN APPROVED AIR-PURIFYING RESPIRATOR.
LOGY: DEFECTS ARE UNLIKELY. EXPOSURES HAVING NO ADVERSE EFFECTS ON THE R SHOULD HAVE NO EFFECT ON THE FETUS.	EXPOSURE GUIDELINE: GLYCERIN:
k OUCTIVE EFFECTS:	ACCIH TLV IS 10 MG/M3. OSHA PEL IS 10 MG/M3 TOTAL, 5 MG/M3 RESPIRABLE. PELS ARE IN ACCORD WITH THOSE RECOMMENDED BY OSHA, AS IN THE 1989 REVISION OF
RITERADUCTIVE EFFECTS SEEM IN FEMALE ANIMALS ARE BELLEVED TO BE DUE TO ALTERED NUTRITIONAL STATUS RESULTING FROM EXTREMELY HIGH DOSES IN THEIR DIETS. SIMILAR EFFECTS HAVE BEEN SEEN IN ANIMALS FED SYNTHETIC DIETS.	PELS.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: WATER WHITE LIGUID.

ODOR: SDORTESS

VAPOR PRESSURE: <1.0 MMHg @ 20 C

VAPOR DENSITY: 3.1

ING POINT: 554 F, 290 C HILITY IN WATER: MISCIBLE

CIFIC GRAVITY: 1.2607 @ 25/25 (MIN.)

\_ 10.

CHEMICAL STABILITY: STABLE.

CONDITIONS TO AVOID: AVOID STRONG OXIDIZING AGENT (SUCH AS SODIUM HYPOCHLORITE, HYPOCHLOROUS ACID).

STABILITY AND REACTIVITY

INCOMPATIBILITY WITH OTHER MATERIALS: OXIDIZING MATERIAL.

HAZARDOUS DECOMPOSITION PRODUCTS: ACROLEIN.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

- 11. TOXICOLOGICAL INFORMATION -

(SEE SECTION 3 FOR POTENTIAL HEALTH EFFECTS. FOR DETAILED TOXICOLOGICAL WRITE OR CALL THE ADDRESS OR NON-EMERGENCY NUMBER SHOWN IN SECTION 1) SKIN: THE LD50 FOR SKIN ABSORPTION IN RABBITS IS >10,000 MG/KG.

INGESTION: THE ORAL LDSO FOR RATS IS 17,000 TO 27,200 MG/KG.

INHALATION: THE LC50 FOR 6 HOURS IN RATS WAS >4 MG/LITER.

MITTAGENICITY: IN VITRO MITTAGENICITY STUDIES WERE NEGATIVE.

(FOR DETAILED ECOLOGICAL DATA, WRITE OR CALL THE ADDRESS OR NON-EMERGENCY NUMBER SHOWN IN SECTION 1)

ENVIRONMENTAL FATE:

MOVEMENT & PARTITIONING: BASED LARGELY OR COMPLETELY ON INFORMATION FOR SIMILAR MATERIAL(S), I.E. GLYCERINE. BIOCONCENTRATION POTENTIAL IS LOW (BCF LESS THAN 100 OR LOG FOW LESS THAN 3). LOG OCTANOL/WATER COEFFICIENT (LOG FOW) IS -1.76.

DEGRADATION & PERSISTENCE:
BASED LARGELY OR COMPLETELY ON INFORMATION FOR SIMILAR MATERIAL(S), I.E.
GLYCERINE.

DEGRADATION UNDER AEROBIC LABORATORY CONDITIONS IS HIGH (BOD20 OR
3/HOD GREATER THAN 40%).

SCHADATION IS EXPECTED TO BE ACHIEVABLE IN A SECONDARY WASTEWATER
MENT PLANT.

SITORY CONCENTRATION (IC50) IN OECD ACTIVATED SLUCKE RESPIRATION

Y BIOCHEMICAL OXYGEN DEMAND (BOD5) IS 0.54 P/P.

AY BIOCHEMICAL OXYGEN DEMAND (BOD5) IS 0.98 P/P.

20-DAY BIOCHEMICAL OXYGEN DEMAND (BOD20) IS 1.0 P/P.

THEORETICAL OXYGEN DEMAND (BOD20) IS 1.0 P/P.

ECOTOXICITY ECOTOXICITY:
BASED LARGELY OR COMPLETELY ON INFORMATION FOR SIMILAR MATERIAL(S), I.E.
GLYCERINE.
MATERIAL IS PRACTICALLY NON-TOXIC TO FISH ON AN ACUTE BASIS (LC50 GREATER
THAN 100 MG/L).
ACUTE LD50 FOR FATHEAD MINNOW (PIMEPHALES PROMELAS) IS 44000 MG/L.
ACUTE LD50 FOR GOLDFISH (CARASSITUS AURATUS) IS GREATER THAN 5000 MG/L.

(SEE SECTION 15 FOR REGULATORY INFORMATION)

DISPOSAL:
DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. ALL DISPOSAL METHODS MUST BE IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL LAWS AND RESULATIONS. REGULATIONS MAY VARY IN DIFFERENT LOCATIONS. WASTE CHARACTERIZATIONS AND COMPLIANCE WITH APPLICABLE LAWS ARE THE RESPONSIBILITY SOLELY OF THE WASTE GENERATOR.

FOR UNUSED & UNCONTAMINATED PRODUCT, THE PREFERRED OPTIONS INCLUDE SENDING TO A LICENSED, PERMITTED: RECYCLER, RECLAIMER, INCINERATOR OR OTHER THERMAL DESTRUCTION DEVICE.

- 14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT):
FOR DOT REGULATORY INFORMATION, IF REGULATED, CONSULT TRANSPORTATION REGULATIONS, OR PRODUCT SHIPPING PAPERS.
NOT REGULATED FOR TRANSPORT BY DOT.

CANADIAN TDG INFORMATION: FOR TDG REGULATORY INFORMATION, IF REQUIRED, CONSULT TRANSPORTATION REGULATIONS OR PRODUCT SHIPPING PAPERS.

15. REGULATORY INFORMATION (NOT MEANT TO BE ALL-INCLUSIVE - SELECTED REGULATIONS REPRESENTED)

HAZARD CATEGORY:
PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES"
LIGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND
HORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER
"ZBLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:
) HAVE MET ANY HAZARD CATEGORY

CANADIAN REXTILATIONS:

WHMTS INFORMATION:

THE CANADIAN					TERLALS					
CLASSIFICATIO	N FOR THIS	PRODUCT	IS:	THIS	PRODUCT	IS	NOT A	4 °C	CONTROLL	ED
PRODUCTS INDE	R WHMTS.									

- 16. OTHER INFORMATION

FOR ADDITIONAL INFORMATION:

CONTACT: MSDS COORDINATOR
UNIVAR USA INC.
DURING BUSINESS HOURS PACIFIC TIME (425) 889-3400

NOTICE: NOTICE:
UNITUAR USA INC ("UNIVAR"), EXPRESSLY DISCLAIMS ALL EXPRESS OR
UNIVAR USA INC ("UNIVAR"), EXPRESSLY DISCLAIMS ALL EXPRESS OR
WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE, WITH
RESPECT TO THE PRODUCT OR INFORMATION PROVIDED HEREIN, AND SHALL UNDER NO
CIRCLMSTANCES BE LITABLE
FOR INCLIDENTAL OR CONSEQUENTIAL DAMAGES.

DO NOT USE INCREDIENT INFORMATION AND/OR PERCENTAGES IN THIS MSDS AS A PRODUCT SPECIFICATION. FOR PRODUCT SPECIFICATION INFORMATION REFER TO A PRODUCT SPECIFICATION SHEET AND/OR A CERTIFICATE OF ANALYSIS. THESE CAN BE OBTAINED FROM YOUR ICCAL UNIVAR SALES OFFICE.

ALL INFORMATION APPEARING HEREIN IS BASED UPON DATA OBTAINED FROM THE MANUFACTURER AND/OR RECOGNIZED TECHNICAL SOURCES. WHILE THE INFORMATION IS BELIEVED TO BE ACCURATE, UNIVAR MAKES NO REPRESENTATIONS AS TO ITS ACCURACY OR SUFFICIENCY. CONDITIONS OF USE ARE BEYOND UNIVARS CONTROL AND THEREFORE USERS ARE RESPONSIBLE TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PARTICULAR PURPOSES AND THEY ASSIME ALL RISKS OF THEIR USE, HANDLING, AND DISPOSAL OF THE PRODUCT, OR FROM THE PUBLICATION OR USE OF, OR RELIANCE UPON INFORMATION CONTAINED HEREIN. THIS INFORMATION RELATES ONLY TO THE PRODUCT DESIGNATED HEREIN, AND DOES NOT RELATE TO ITS USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY OTHER PROCESS.

## ITEM: 4TA15 - Gauge Pressure 200 PSI

MSDS: A6621

PICK REQ: 1037951358

ENVIRONMENTAL PRECAUTIONS: NO SPECIFIC RECOMMENDATIONS

**MATERIAL SAFETY DATA SHEET (MSDS)** 

This MSDS should be attached or kept with the r	espective product with which it is associated.			
IAL SAFETY DATA SHEET - A6621  Suciated Grainger Item: 4TA15 - Gauge Pressure 200 PSF	METHODS FOR CLEANING UP: COLLECT AS MUCH AS POSSIBLE IN A CLEAN CONTAINER FOR (PREFERABLE) REUSE OR			
4TA12, 4TA13, 4TA14, 4TA15, 4TA16, 4TA17, 4TA18, 4TA19, 4TA20, 4TA21	DISPOSAL.			
SAFETY DATA SHEET	OTHER INFORMATION: FOR PERSONAL PROTECTION SEE SECTION 8.			
ACCORDING TO EC-DIRECTIVE 2001/58/EC	7. HANDLING AND STORAGE			
GLYCERINE 1.262	HANDLING: THE USUAL PRECAUTIONS FOR HANDLING CHEMICALS SHOULD BE OBSERVED			
1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING	FIRE AND EXPLOSION PREVENTION: NO SPECIFIC RECOMMENDATIONS. AVOID CONTACT WITH OXIDIZING AGENTS.			
PRODUCT LABEL NAME: CLYCEROL, 99.5%	STORAGE REQUIREMENTS: NO SPECIFIC RECOMMENDATIONS.			
SUPPLIER: AKZO NOBEL CHEMICALS GMBH INDUSTRIESTRASSE 10 D-46446 EMMERICH	OTHER INFORMATION: TO MAINTAIN QUALITY: STORE AT AMBIENT TEMPERATURES. AVOID ELEVATED TEMPERATURES.			
GERMANY TEL.: +49-(0)2822 74460	8. EXPOSURE CONTROLS/PERSONAL PROTECTION —————			
EMERGENCY TELEPHONE: +31 570679211 (FAX. + .31 570679801) AKZO NOBEL CHEMICALS-DEVENTER-NL	ENGINEERING CONTROLS: THE USUAL PRECAUTIONARY MEASURES FOR HANDLING CHEMICALS SHOULD BE OBSERVED.			
INTENDED USE: PERSONAL CARE.	EXPOSURE LIMITS: NO EXPOSURE LIMIT HAS BEEN ESTABLISHED PERSONAL PROTECTION:			
2. COMPOSITION/INFORMATION ON INGREDIENTS	FERSONAL PROTECTION SPECIFIC RECOMMENDATIONS. HAND: NO SPECIFIC RECOMMENDATIONS. EYE: NO SPECIFIC RECOMMENDATIONS			
THIS PRODUCT IS TO BE CONSIDERED AS A SUBSTANCE IN CONFORMANCE TO EC	SKIN AND BODY: NO SPECIFIC RECOMMENDATIONS.			
DIRECTIVES INFORMATION ON HAZARDOUS INGREDIENTS	OTHER INFORMATION: THE USUAL PRECAUTIONS FOR HANDLING CHEMICALS SHOULD BE OBSERVED.			
CHEMICAL DESCRIPTION: GLYCEROL, 99.5%				
COMPOSITION/INFORMATION ON INGREDIENTS:	9. PHYSICAL AND CHEMICAL PROPERTIES			
NUMBER % W/W CAS-NUMBER CHEMICAL NAME	APPEARANCE: LIQUID (20 DEG. C)			
1	COLOUR: COLOURLESS			
NUMBER EC-NUMBER ANNEX-1 NUMBER SYMBOL(S) RISK-PHRASE(S)  1 200-289-5 NONE NONE	ODOUR: ODOURLESS BOILING POINT/RANGE: 290 DBG. C			
1 200-205 5 NOME NOME	MELTING POINT/RANGE: 250 DBG. C			
3. HAZARDS IDENTIFICATION —	FLASH POINT: >100 DBG. C, PENSKY-MARTENS CLOSED CUP			
LASSIFIED AS HAZARDOUS ACCORDING TO THE EEC DANGEROUS SUBSTANCE CTIVE AND DANGEROUS PREPARATION DIRECTIVE.	FLAMMABILITY: NOT DETERMINED			
A TITOUT ATT ATTACK	AUTOIGNITION TEMPERATURE: 429 DEG. C			
4. FIRST AID MEASURES  SYMPTOMS AND EFFECTS: NO TYPICAL SYMPTOMS AND EFFECTS KNOWN	EXPLOSIVE PROPERTIES: NONE KNOWN			
FIRST AID:	EXPLOSION LIMITS: NO DATA AVAILABLE			
GENERAL:	OXIDIZING PROPERTIES: NONE KNOWN			
IN ALL CASES OF DOUBT, OR WHEN SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION.	VAPOUR PRESSURE: <0.1 PA (20 DEG. C)			
INHALATION: THIS IS ONLY POSSIBLE BY EXPOSURE TO HOT PRODUCT. MOVE TO FRESH AIR, REST,	DENSITY: APPROX. 1260 KG/M3 (20 DEG. C)			
HALF UPRIGHT POSITION, LOOSEN CLOTHING. OXYGEN OR ARTIFICIAL RESPIRATION IF THERE IS DIFFICULTY IN EREATHING. SEEK MEDICAL ADVICE AFTER SIGNIFICANT	BULK DENSITY: NOT RELEVANT			
EXPOSURE. SYMPTOMATIC TREATMENT IS ADVISED.	SOLUBILITY IN WATER: SOLUBLE			
SKIN: REMOVE CONTAMINATED CLOTHING. SEEK MEDICAL ADVICE IF IRRITATION DEVELOPS. A NAMED CLOTHER DESCRIPTION APPEND CONTACT WITH CHAP IN A REPORT ADMINISTRA	SOLUBILITY IN OTHER SOLVENTS: NOT DETERMINED			
LAUNDER CLOTHES BEFORE REUSE. AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER.	ph value: neutral Partition coefficient n-octanol/water: not determined			
EYE: RINSE THOROUGHLY WITH PLENTY OF WATER. EYELIDS SHOULD BE HELD AWAY FROM THE	RELATIVE VAPOUR DENSITY (AIR=1): NOT DETERMINED			
EYEBALL TO ENSURE THOROUGH RINSING. SEEK MEDICAL ADVICE IF IRRITATION DEVELOPS.	VISCOSITY: 1400 MPA.S (20 DEG. C)			
INGESTION: NO TYPICAL SYMPTOMS AND EFFECTS KNOWN	10. STABILITY AND REACTIVITY			
ADVICE TO PHYSICIAN: SYMPTOMATIC TREATMENT IS ADVISED.	STABILITY: NO DECOMPOSITION IF STORED AND HANDLED PROPERLY.			
5. FIRE-FIGHTING MEASURES	CONDITIONS TO AVOID: TEMPERATURE >200 DBG. C (POLYMERIZATION, DECOMPOSES).			
EXTINGUISHING MEDIA:	MATERIALS TO AVOID: AVOID CONTACT WITH OXIDIZING AGENTS.			
WATER MIST, ALCOHOL RESISTANT FOAM, DRY POWDER, CARBON DIOXIDE. UNSUITABLE EXTINGUISHING MEDIA: WATERJET, FOAM.	HAZARDOUS DECOMPOSITION PRODUCTS: ACROLEIN (>280 DEG. C).			
SPECIAL EXPOSURE HAZARDS: VAPOURS CAUSE COUGHING.	11. TOXICOLOGICAL INFORMATION			
HAZARDOUS DECOMPOSITION/COMBUSTION PRODUCTS:	NAME: GLYCEROL			
AT ELEVATED TEMPERATURES THERE IS A RISK OF EXCHERMIC POLYMERIZATION (>200 DBG. C). AT TEMPERATURES >280 DBG. C, ACROLEIN MAY BE FORMED.	ACUTE TOXICITY: ORAL LD50: >2000 MG/KG (RAT) (IUCLID).			
PROTECTIVE EQUIPMENT: NO SPECIFIC RECOMMENDATIONS	IRRITATION:			
IMPORMATION: CONTACT WITH OXIDIZING AGENTS. COOL CLOSED CONTAINERS WITH WATER.	SKIN: MILDLY IRRITATING (IUCLID). EYE: MILDLY IRRITATING (IUCLID).			
6. ACCIDENTAL RELEASE MEASURES	12. ECOLOGICAL INFORMATION			
PERSONAL PRECAUTIONS: THE USUAL PRECAUTIONS FOR HANDLING CHEMICALS SHOULD BE OBSERVED	NAME: GLYCEROL			

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ECOTOXICITY:

96H-LC50: >5000 MG/L (IUCLID). ALGAE: 48H-EC50: >2900 MG/L (LIT.). BACTERIA: 72H-IC50: >10000 MG/L (IUCLID). DEGRADATION BIOTIC: BIODEGRADABLE. PRODUCT: ACCORDING TO LOCAL REGULATIONS (MOST PROBABLY CONTROLLED INCINERATION).

- 13. DISPOSAL CONSIDERATIONS

CONTAMINATED PACKAGING: ACCORDING TO LOCAL REGULATIONS

- 14. TRANSPORT INFORMATION

LAND TRANSPORT (ADR/RID):
ADR CLASS: NOT RESTRICTED
ADR CLASS: NOT RESTRICTED
ADR CLASSIFICATION CODE: NOT RELEVANT/NOT RELEVANT
RID CLASS: NOT RESTRICTED
ADR/RID PACKING GROUP: NOT RELEVANT/NOT RELEVANT
HAZARD IDENTIFICATION NO.: NOT RELEVANT
SUBSTANCE IDENTIFICATION NO.: NOT RELEVANT
TREM-CARD: NOT RELEVANT
UN NUMBER: NONE
BOODED SUIDDING NAME: NOT RELEVANT PROPER SHIPPING NAME: NOT RELEVANT

SEA TRANSPORT (IMDG-CODE/IMO):
IMO/IMDG CODE: NOT RESTRICTED
CLASS: NOT RESTRICTED
PACKING GROUP: NOT RELEVANT
UN NUMBER: NONE
EMS: NOT RELEVANT
SUBSIDIARY RISK: NOT RELEVANT
MARINE POLLUTANT: NO
PROPER SHIPPING NAME: NOT RELEVANT

AIR TRANSPORT (ICAO-TI/IATA-DGR):
ICAO-TI/IATA-DGR:
UN NUMBER: NONE
CLASS: NOT RESTRICTED
PACKING GROUP: NOT RELEVANT
PROPER SHIPPING NAME: NOT RELEVANT

15. REGULATORY INFORMATION

CHEMICAL DESCRIPTION: GLYCEROL, 99.5%

LABELING ACCORDING TO EC DIRECTIVES:

EC-NUMBER: SEE SECTION 2.

SYMBOL(S): NONE

PHRASE(S): NONE.

AFETY) PHRASE(S): NONE.

WASSERGEFAHRDUNGSKLASSE (WGK): 1 (VWVWS ANHANG 1 KENN-NR. 116)

— 16. OTHER INFORMATION -

THIS INFORMATION ONLY CONCERNS THE ABOVE MENTIONED PRODUCT AND DOES NOT NEED TO BE VALID IF USED WITH OTHER PRODUCT(S) OR IN ANY PROCESS. THE INFORMATION IS TO OUR BEST PRESENT KNOWLEDGE CORRECT AND COMPLETE AND IS GIVEN IN GOOD FAITH BUT WITHOUT WARRANTY. IT REMAINS THE USER'S OWN RESPONSIBILITY TO MAKE SURE THAT THE INFORMATION IS APPROPRIATE AND COMPLETE FOR HIS SPECIAL USE OF THIS PRODUCT.

R-PHRASE INFORMATION:

CHEMICAL NAME RISK-PHRASE(S)

1,2,3-PROPANETRIOL

NONE

NONE

DATE OF PRINTING/PDF FILE GENERATED: 2004/09/29

REVISION: 1.03

COMPOSED BY: J. VAN KOOTEN

CHANGES WERE MADE IN SECTION: 11, 12, 15, 16

PRODUCT CODE: 266011

DATE OF LAST-ISSUE: 2004/05/26

ICS: 409

GB - AENGLISH

## ITEM: 2W765 - GLASS BEAD BLAST MEDIA

MSDS: A5865

PICK\_REQ: 0182585837

**MATERIAL SAFETY DATA SHEET (MSDS)** 

RIAL SAFETY DATA SHEET - A5865	EMERGENCY AND FIRST AID PROCEDURES: REMOVE TO FRESH AIR.
:iated Grainger Item: 2W765 - GLASS BEAD BLAST MEDIA POITERS INDUSTRIES INC.	OTHER CHARACTERISTICS: CONTAINS NO FREE SILICA; ALL COMPONENTS AMORPHOUS/NON-CRYSTALLINE.
AN AFFILIATE OF THE PQ CORPORATION	SECTION 7 SPECIAL PROTECTION INFORMATION
MATERIAL SAFETY DATA SHEET	RESPIRATORY PROTECTION:
BALLOTINI IMPACT BEADS	USE NIOSH APPROVED DUST MASK OR RESPIRATOR WHERE AIRBORNE DUST IS GENERATED OBSERVE OSHA REGULATIONS FOR RESPIRATOR USE (29 CFR 1910.134)
MIS RATING:	GLOVES: NONE REQUIRED.
	EYE PROTECTION: NIOSH APPROVED SAFETY GLASSES OR GOGGLES.
	OTHER PROTECTIVE EQUIPMENT: NONE REQUIRED.
ANUFACTURER: POTTERS INDUSTRIES INC.	PERSONAL HYGIENE: AVOID BREATHING DUST. AVOID CONTACT WITH EYES. WASH EYES OUT IMMEDIATELY
ADDRESS:	AFTER CONTACT.
SOUTHPOINT <sup>2</sup> , O. BOX 840 VALLEY FORGE, PA 19482-0840	ENGINEERING CONTROL: LOCAL EXHAUST IS RECOMMENDED FOR OPERATIONS THAT GENERATE MUISANCE DUST IN EXCESS OF OSHA EXPOSURE LIMITS.
4_HOUR & EMERGENCY & TELT ** NO * : **610 + 651 + 4700	SECTION 8 SUBSTANCES FOR WHICH STANDARDS HAVE BEEN SET
SALES NAME: BALLOTINI IMPACT BEADS	COMPONENTS: GLASS OXIDE, C.A.S. NO. 65997-17-3
HEMICAL NAME: GLASS OXIDE	PERCENTAGE: 100%
COMPONENTS: SODA-LIME GLASS	OSHA EXPOSURE LIMIT:
SCA CAS REGISTRY NO(S): 65997-17-3	NUISANCE DUST: OSHA PEL 15 MG/M3, ACGIH TLV 10 MG/M3. RESPIRABLE FRACTION: OSHA PEL 5 MG/M3, ACGIH TLV 5 MG/M3.
OOT SHIPPING NAME: N.A.	EXPOSURE ANALYSIS METHOD: NIOSH MANUAL OF ANALYTICAL METHODS, 3RD., METHOD 7501 (1984).
SECTION 2 CHEMICAL AND PHYSICAL DATA	SECTION 9 SOURCE OF INFORMATION
PPEARANCE & ODOR: ODORLESS WHITE POWDER.	WALTER E. KOZLOWSKI
PECIFIC GRAVITY: 2.46-2.49 G/CC	DATE: 1/13/03
OLUBILITY IN WATER: INSOLUBLE	N.A. NOT APPLICABLE
H (AQUEOUS LIQUIDS ONLY): N.A. CHARACTERISTICS: SOFTENING POINT 730 DEG. C	
SECTION 3 FIRE AND EXPLOSION HAZARD DATA	
LASH POINT (DEG. F): NON-COMBUSTIBLE AND NONFLAMMABLE.	
LAMMABLE LIMITS (VAPOR IN AIR, VOL. %): N.A.	
IRE EXTINGUISHING MEDIA: N.A.	
PECIAL FIRE FIGHTING PROCEDURES: N.A.	
NUSUAL FIRE AND EXPLOSION HAZARDS: NONE	
SECTION 4 REACTIVITY DATA	
TABILITY: STABLE	
ONDITIONS TO AVOID: NONE	
NCOMPATIBILITY (MATERIALS TO AVOID): HYDROFLUORIC ACID.	
AZARDOUS DECOMPOSITION PRODUCTS: NONE	
AZARDOUS POLYMERIZATION: WILL NOT OCCUR.	
SECTION 5 SPILL OR LEAK PROCEDURES	
NVIRONMENTAL HAZARDS: O ADVERSE EFFECTS KNOWN OR SUSPECTED, NOT AN RORA HAZARDOUS SUBSTANCE SHA HAZARDOUS CHEMICAL, DOES NOT CONTAIN A LISTED TOXIC CHEMICAL UNDE ITLE 111 SUBSECTION 302, SUBSECTION 304 OR SUBSECTION 313.	E OR ER SARA
PILLAGE: SWEEP UP AND DISCARD.	
ASTE DISPOSAL METHOD: ANDFILL ACCORDING TO LOCAL, STATE AND FEDERAL REGULATIONS.	
THER PRECAUTIONS: PILLAGE MAY RESULT IN SLIPPERY CONDITIONS. WHEN TRANSPORTING MATERIAL HOULD BE TAKEN TO AVOID DUSTING.	L, CARE
CENTRAL & UPATRU HAZADO DAMA	

MEDICAL CONDITIONS: CHRONIC LUNG CONDITIONS MAY BE AGGRAVATED BY EXPOSURE TO HIGH CONCENTRATIONS OF DUST.

(S) OF ENTRY: INHALATION

HEALTH HAZARDS:

DIST IN EXCESS OF RECOMMENDED EXPOSURE LIMITS MAY RESULT IN IRRITATION TO ESPIRATORY TRACT.

NOGENICITY: NOT LISTED UNDER MTP, LARC MONOGRAPHS, OR OSHA.

ORDER: 1046286601 ITEM: 2V712 - Lamp Mvr250/U 250 W HAZMAT: 2V712

### **HAZARD MATERIAL WARNING SHEET (HAZMAT)**

# When shipment is complete, retain for daily Hazmat audit

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GRAINGER SHIPPING INFORMATION

STOCK #

: 2V712

MSDS #

: A8921

FREIGHT CODE

: 0274

DOT PROPER SHIP NAME

: GENERAL, N.O.I., ITEMS NOT REGULATED WHEN SHIPPED VIA GROUND, NOTE: FOR UN2911, NO DANGEROUS GOODS TRANSPORT DOCUMENTATION REQUIRED AS PER DOT 49 CFR

173.424 AND IMDG 2.7.9.1

UPS RESTRICTIONS

HAZARDOUS CLASS NUMBER :

UN ID #

PACKING GROUP

SHIPPING LABEL

LIMITED QUANTITY

CARTON INSTRUCTIONS

: CAN REPACK IN GRAINGER S CARTON

DOT/UPS EXEMPTION NO.

COMMENTS

: HAZARDOUS MATERIAL. DO NOT SHIP AIR!!

The second state of the second second

SHIPPING-PAPERS

PLACARD OFFERED ? YES ( ) NO ( ) PLEASE MARK ONE

## ITEM: 2V712 - Lamp Mvr250/U 250 W

PICK REQ: 1046286601

**MATERIAL SAFETY DATA SHEET (MSDS)** 

This MSDS should be attached or kept with the respective product with which it is associated.

"WARNING: WARNING:
THIS LAMP ASSOCIATED SERVING SHIRL WHILE EVEL IN AMPRESON IN EXCRIVAVE
ULTRAVIOLET RADIATION IF OUTER ENVELOPE OF THE LAMP IS EROKEN OR PUNCTURED,
AND THE ARC TUBE CONTINUES TO OPERATE. DO NOT USE WHERE PEOPLE WILL REMAIN 1C425
FOR MORE THAN A FEW MINUTES ADDILATES SHELDING OR OTHER ASFETY 1E279,
PRECAUTIONS ARE USED. GENERAL ELECTRIC COMPANY HAS COMMERCIALLY AVAILABLEE694,
SAF-T-GARD MERCURY AND MILITI-VAPOR LAMPS THAT WILL AUTOMATICALLY EXTINGUISH980,
WHEN THE OUTER ENVELOPE IS BROKEN."

1RF31. 1VZ60. 2C880. 2F103. 2F105. 2F107. 2

MSDS: A8921

WHEN THE CUTER ENVELOPE IS BROKEN."

IRF31, 1VZ60, 2C880, 2F103, 2F105, 2F107, 2

ZHESSELPPENTINGHZENINGFENDAL ZHARZDEZFENDES REPERFEDFYXOLAR ZHANZURDER ZURDER
BEGINNING WITH THE LETTERS "HT" OR "MVT". IF THE CUTER GLASS ENVELOPE OF A 2V65
SAF-T-GARD LAMP IS BROKEN, ALTHOUGH THE ARC TUBE WILL HAVE
SELF-EXTINGUISHED, ITS SUPPORT STRUCTURE WILL STILL BE ELECTRICALEDE 18, 4V550
CONNECTED AND COULD PRESENT AN ELECTRICAL SHOCK HAZARD. THEREFORE, SHE87, 5H
RECARDLESS OF THE TYPE, IF THE CUTER ENVELOPE OF THE LAMP IS BROKEN, TURNAL, 5V6
THE POWER OFF BEFORE REPLACING THE LAMPS.

SXN59,
6V757, 6VR49, 6XT44, 6XT87, 6XT88, 6XT89, 6XT90, 6XT91, 6XT92, 6XT93, 6XT94

6W24, 6XW25, 6XW27, 6XW27, 6XW28 IVEXDISPONDERNS

WELLP:
A TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP) TEST CONDUCTED ON THE
LAMP FOR LEAD OR MERCURY COULD CAUSE THE LAMP TO BE CLASSIFIED AS A GE CON
HAZARDOUS WASTE. MERCURY LAMPS USE LEAD SOLDER ON THE LAMP BASE AND MERCURY
IN THE ARC TUBE. THE LEAD SOLDER OR MERCURY VAPOR SHOULD POSE LITTILE RISK OEAMP
EXPOSURE UNDER NORMAL USE AND HANDLING. WHILE SWALL NUMBERS OF THESE LAMPS
PLACED IN THE ORDINARY TRASH SHOLLD NOT APPRECIABLY EFFECT THE NATURE OR MATER
METHOD OF DISPOSAL OF THE TRASH IN MOST STATES, UNDER SOME CIRCUMSTANCES
DISPOSAL OF LARGE QUANTITIES MAY BE REGULATED. YOU SHOULD REVIEW YOUR WASDERORMA
HANDLING PRACTICES TO ASSURE THAT YOU DISPOSE OF WASTE LAMPS PROPERLY. THE ME
PLEASE CHECK WITH STATE ENVIRONMENTAL DEPARTMENTS REGARDING INDIVIDUALSHERER AND
DISPOSAL REDUITEMENTS. DISPOSAL REQUIREMENTS.

RELEASED DURING NORMAL USE AND OPERATION.

THE FOLLOWING INFORMATION IS PROVIDED AS A SERVICE TO OUR CUSTOMERS. FOLLOWING LAMP MATERIAL INFORMATION SHEET CONTAINS APPLICABLE MATERIAL SAFETY DATA SHEET INFORMATION.

— I. PRODUCT IDENTIFICATION —

GE\_MERCURY VAPOR LAMPS ..

GE CONSUMER & INDUSTRIAL LIGHTING 1975 NOBLE ROAD NELA PARK CLEVELAND, OH 44112 (216)=266-2222

- II, LAMP MATERIALS AND HAZARDOUS INCREDIENTS -

GLASS: THESE LAMPS CONSIST OF AN INNER QUARTZ ARC TUBE ENCLOSED IN AN OUTER ENVELOPE OF HEAT-RESISTANT GLASS. DEPENDING ON THE LAMP TYPE, THE ENVELOPE IS EITHER CLEAR OF COATED WITH ONE OF TWO DIFFERENT MATERIALS.

PHOSPHOR:

THE PHOSPHOR USED ON THE OUTER ENVELOPE OF THE "DX" TYPE LAMPS CONSISTS OF YTTRIUM VANADATE PHOSPHATE. THIS MATERIAL, LIKE MOST VANADIUM COMPOUNDS, IS RELATIVELY INSOLUBLE, AND APPEARS TO HAVE A MUCH LOWER TOXICITY THAN VANADIUM PENTOXIDE HUI MAY ELICIT SOME SIMILAR SYMPTOMS AT HICH EXPOSURE LEVELS. EXCESSIVE INHALATION EXPOSURE TO VANADIUM PENTOXIDE MAY RESULT IN IRRITATION OF THE NASAL PASSAGES AND RESPIRATORY TRACT, COUGH, DIFFICULTY IN ERPEATHING, AND BRONCHTIS. HOWEVER, THE YTIRIUM VANADIUM PHOSPHATE FROM THE BREAKAGE OF ONE OR A SMALL NUMBER OF LAMPS SHOULD NOT RESULT IN A SIGNIFICANT EXPOSURE.

THE PHOSPHOR USED ON THE OUTER ENVELOPE OF THE "WDX" LAMPS IS THE SAME AS THAT IN THE "DX" LAMPS BUT WITH THE ADDITION OF A SMALL AMOUNT OF MAGNESIUM GERMANATE PHOSPHOR, A TOXICOLOGICALLY RELATIVELY INERT MATERIAL.

ARC TUBE:
THE QUARTZ ARC TUBE CONTAINS A SMALL AMOUNT OF MERCURY, RANGING FROM 14
MILLIGRAMS IN A 50 WATT UP TO 250 MG IN A 1000 WATT LAMP. THE ARC TUBE
CONTAINS A SMALL AMOUNT OF INERT GAS ARGON USED AS A FILL GAS. IT ALSO
CONTAINS A SMALL AMOUNT OF OTHER MATERIALS, USED AS AN EMISSION MIX ON THE
ELECTRODES, BUT THERE WOULD BE NO SIGNIFICANT EXPOSURE FROM LAMP BREAKAGE.

ALSO CONTAINED IN THE ARC TUBE ARE SMALL AMOUNTS OF SODIUM AND SCANDIUM IODIDE, AND IN SOME CASES THORIUM IODIDE. NONE OF THESE MATERIALS ARE EXPECTED TO BE A HAZARD IN THE SMALL QUANTITIES PRESENT IN THE ARC TUBE. THE COATING ON THE BRO(S) OF THE ARC TUBE IS ALLUMINUM OXIDE, A MATERIAL GENERALLY CONSIDERED TO HAVE A LOW ORDER OF TOXICITY.

INTERNALLY, THE SUPPORT WIRES USED IN THE LAMP CONSTRUCTION ARE MADE FROM NICKEL-COATED IRON OR STAINLESS STEEL WHILE THE ELECTRODES ARE TUNGSTEN. MANY OF THE MERCURY LAMP TYPES WILL USE A BRASS BASE AND HAVE LEAD-SOLDERED CONNECTIONS TO THAT BASE.

- III. HEALTH CONCERNS -

MERCURY EXPOSURE: MERCURY EXPOSURE:
THE AIR CONCENTRATION OF MERCURY RESULTING FROM THE BREAKAGE OF ONE OR A
SMALL NUMBER OF LAMPS SHOULD RESULT IN NO SIGNIFICANT EXPOSURE TO THE
INDIVIDUAL. HOWEVER, IF BEREAKING A LARGE NUMBER OF LAMPS FOR DISPOSAL,
APPROPRIATE MONITORING, CONTROLS AND EQUIPMENT SHOULD BE IMPLEMENTED TO
CONTROL ALREDRIME MERCURY AND DUST LEVELS OR SUFFACE CONTEMINATION. SUCH WORK
SHOULD BE DONE IN A WELL-VENTILATED AREA, AND LOCAL EXHAUST VENTILATION OR
PERSONAL PROTECTIVE EQUIPMENT MAY BE NEEDED.

ULTRAVIOLET (UV) RADIATION:
THE QUARTZ ARC TUBE, WHEN OPERATING, GENERATES A CONSIDERABLE AMOUNT OF
ULITRAVIOLET RADIATION. THE UV IS FILITERED TO ACCEPTABLE LEVELS BY THE GLASS
CUTER EXVELOPE DURING NORMAL USE. HOWEVER, IT THE OUTER ENVELOPE IS BROKEN,
THE UV FILITERING IS LOST. LAMPS HAVING ORDERING CODES BEGINNING WITH THE
LETTERS "HR" OR "HSB" HAVE THE FOLLOWING WARNING NOTICE REQUIRED UNDER
FEDERAL REGULATION 21 CFR 1040.30:

## ITEM: 5A924 - Wheel 3x1/16x3/8 In

MSDS: A6423

PICK\_REQ: 1030128228

MATERIAL SAFETY DATA SHEET (MSDS)

I HIS MSDS SHOULD be attached of kept with the I ************************************	respective product with which it is associated. 
Associated Grainger Item: 5A924 - Wheel 3x1/16x3/8 In	SECTION 6. ACCIDENTAL RELEASE MEASURES
3WL69, 3WR86, 3WR07, 3WR10, 3WR15, 3WR18, 3WR34, 3W108, 3WV16, 3WV26, 3WW23 3WW36, 3WW40, 4B150, 4B164, 4B165, 4B167, 4B169, 4B173, 4B174, 4B175, 4F873	CLEAN-UP: FOLLOW NORMAL CLEAN UP PROCEDURES.
4F974, 4F875, 4F976, 5A963, 5A964, 5A965, 5A966, 5A967, 5A968, 5A869, 5A871 5A875, 5A877, 5A878, 5A879, 5A924, 5A925, 5A926, 5A928, 5A929, 5A931, 5A933 5A935, 5A936, 5A939, 5A940	SECTION 7. HANDLING AND STORAGE
NORTON	HANDLING: ALWAYS HANDLE AND STORE WHEELS IN A CAREFUL MANNER.
MATERIAL SAFETY DATA SHEET	ALWAYS VISUALLY INSPECT ALL WHEELS BEFORE MOUNTING. ALWAYS CHECK MACHINE SPEED AGAINST THE ESTABLISHED MAXIMUM SAFE OPERATING
MATERIAL SAFETY DATA SHEET  DATE PRINTED JUN:01, 2004  MEDS NO. SICNETSTROOM OUTPOIND	SPEED MARKED ON THE WHEEL. ALWAYS CHECK MOUNTING FLANGES FOR EQUAL AND CORRECT DIAMETER.
MSDS NO.: SICNZRESINOOO OUIBOUND	ALWAYS USE MOUNTING BLOTTERS. ALWAYS BE SURE WORK REST IS PROPERLY ADJUSTED. ALWAYS USE A SAFETY GUARD COVERING AT LEAST ONE-HALF OF THE GRINDING WHEEL.
SIC/NORZON RESIN GRINDING WHEEL	ALMAYS ALLOW NEWLY MOUNTED WHEELS TO RUN AT OPERATING SPEED, WITH GUARD IN PLACE, FOR AT LEAST ONE MINUTE BEFORE GRINDING. ALMAYS TURN OFF COOLANT BEFORE STOPPING WHEEL TO AVOID CREATING AN
SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION	OUT-OF-BALANCE WHEEL
PRODUCT NAME: SIC/NORZON RESIN GRINDING WHEEL	SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
TRADE NAME: CRYSTALON/NORZON MANUFACTURER (4):	VENTILATION PROTECTION:
SAINT-GOBAIN ABRASIVES, INC.	RECOMMEND USING LOCAL EXHAUST VENTILATION WHEN GENERAL VENTILATION IS NOT KEEPING THE ALRBORNE CONCENTRATION BELOW THE TLV.
ONE NEW BOND STREET WORCESTER, MA, 01606 (508) 795-5000	RESPIRATORY PROTECTION: RESPIRATORS ARE REQUIRED WHEN AIRBORNE CONTAMINANT LEVELS EXCEED THE
REVISION DATE: 6/01/2004	TLV(S).  EYE PROTECTION:
MSDS PRINT FORMAT	ALWAYS WEAR SAFETY GLASSES OR SOME TYPE OF EYE PROTECTION WHEN GRINDING.
NUSA	OTHER PROTECTION: USE OF THIS PRODUCT MAY CREATE ELEVATED SOUND LEVELS. HEARING PROTECTION
SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS	SHOULD BE WORN WHERE REQUIRED (SEE OSHA 29 CFR 1910.134 AND OTHER APPLICABLE REGULATIONS).
SUBSTANCE DESCRIPTION PERCENT CAS#	
ALUMINUM OXIDE, NON-FIBROUS 20.000-30.000 1344-28-1	SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES
CURED PHENOLFORMALDEHYDE RESIN 3.000-6.000 9003-35-4	APPEARANCE & ODOR: SOLID ARTICLE. ODORLESS.
FIBERGLASS 0.003-3.000 65997-17-3	
CON CARBIDE 35.000-45.000 409-21-2	INCOMPATIBILITIES: AVOID ACIDS OF ALL TYPES WITH A pH < 4.0.
DNIUM OXIDE 15.000-25.000 1314-23-4	DECOMPOSITION: IN USE, DUST AND DECOMPOSING ODORS MAY BE GENERATED. IN MOST CASES, THE
OTHER: NOT APPLICABLE	MATERIAL REMOVED FROM THE WORKPLACE WILL BE SIGNIFICANTLY GREATER THAN THE GRINDING WHEEL COMPONENTS. COOLANTS MAY PRODUCE OTHER DECOMPOSITION PRODUCTS.
SECTION 3. HAZARDS IDENTIFICATION -	FOR PRODUCTS CONTAINING PHENOL AND FORMALDEHYDE RESIN, THERMAL DECOMPOSITION MAY PRODUCE TRACE AMOUNTS OF PHENOL AND FORMALDEHYDE.
INHALATION ACUTE EXPOSURE EFFECTS: DUST MAY BE SLIGHTLY IRRITATING TO EYES AND RESPIRATORY TRACT AT HIGH CONCENTRATIONS.	FOR PRODUCTS CONTAINING INORGANIC FLUORIDES, THERMAL DECOMPOSITION MAY PRODUCE TRACE ANOUNTS OF FLUORIDES.
INHALATION CHRONIC EXPOSURE EFFECTS: CHRONIC: MAY AFFECT BREATHING CAPACITY.	SECTION 11. TOXICOLOGICAL INFORMATION
FOR PRODUCTS COMMAINING PHENOL FORMALDEHYDE RESIN, DUST GENERATED FROM INTENDED USE MAY CONTAIN TRACE AMOUNTS OF PHENOL AND FORMALDEHYDE WHICH	CARCINOGENICITY: FOR WHEELS CONTAINING FIBERGLASS, FIBER DIAMETERS ARE GREATER THAN
UNDER EXCESSIVE EXPOSURE MAY CAUSE SKIN SENSITIZATION AND AIRWAY OBSTRUCTION.	10 (MICRO) M, THEREFORE CONSIDERED NON-RESPIRABLE. FIBERGLASS - IARC-3
FOR PRODUCTS CONTAINING INORGANIC FLUORIDES, EXCESSIVE EXPOSURE TO INORGANIC TLUORIDES HAVE BEEN SHOWN TO INCREASE BONE DENSITY.	LD50/LC50: VALUES ARE NOT APPROPRIATE OR AVAILABLE.
EYE CONTACT ACUTE EXPOSURE EFFECTS: DUST MAY IRRITATE EYES.	SECTION 12. ECOLOGICAL INFORMATION
SKIN CONTACT ACUTE EXPOSURE EFFECTS: SOME MAY EXPERIENCE SKIN IRRITATION FROM DUST.	CHEMICAL FATE: RESIN BONDED MATERIALS DEMONSTRATE SIMILAR DEGRADATION RATES AS PHENOLIC
INGESTION ACUTE EXPOSURE EFFECTS: NO KNOWN ADVERSE EFFECTS, BUT INGESTION NOT RECOMMENDED.	PLASTICS. VITRIFIED PRODUCTS DO NOT APPRECIABLY DECAY.
SECTION 4. FIRST AID MEASURES	SECTION 13. DISPOSAL CONSIDERATIONS
INHALATION: REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION IMMEDIATELY.	WASTE DISPOSAL: USE STANDARD LANDFILL METHODS CONSISTENT WITH APPLICABLE FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS.
SKIN CONTACT: WASH AFFECTED AREAS WITH SOAP AND WATER. OBTAIN MEDICAL ASSISTANCE.	PRODUCTS WITH LISTED FLUORIDES MAY HAVE SLIGHTLY SOLUBLE FLUORIDE SWARF.  RECYCLING PROGRAM - THE COMPANY HAS DEVELOPED A GRINDING WHEEL RECYCLING
EYE CONTACT: WASH WITH LARGE AMOUNTS OF WATER. OBTAIN FIRST AID AND MEDICAL ASSISTANCE,	PROGRAM. IF YOU ARE INTERESTED IN RETURNING YOUR STUBS, INFORMATION CAN BE OBTAINED BY DIALING CUSTOMER SERVICE.
IF NEEDED	SECTION 14. TRANSPORT INFORMATION ————————————————————————————————————
INGESTION: CALL POISON CONTROL CENTER, HOSPITAL EMERGENCY ROOM OR PHYSICIAN IMMEDIATELY.	HAZARD CLASS: N/A
SECTION 5. FIRE FIGHTING MEASURES	
FIGHTING PROCEDURES: NOT APPLICABLE	EXPOSURE LIMITS/REGULATORY INFORMATION:
DOUS PRODUCTS/COMBUSTION: NONE.	SUBSTANCE DESCRIPTION UNITS OSHA ACGIH MOL
HAZARD RATING SOURCE:	ALLMINUM OXIDE, NON-FIBROUS MG/M3 15.0000 10.0000 10.0000
NFPA: HEALTH 1	CURED PHENOL FORMALDEHYDE RESIN PPM 0.0000 0.0000 0.0000
FLAMMABILITY 0 REACTIVITY 0 OTHER	FIBERGLASS   FER/CC   1.0000   0.0000   0.0000
V#1	10.0000 10.0000 10.0000 10.0000

ZIRCONIUM CAIDE

MG/M3 5.0000 5.0000 5.0000

LEGEND:

EXPOSURE LIMIT DESCRIPTIONS:

CA PROP 65: NOT APPLICABLE

CA PROP 65: NOT APPLICABLE.

ON  $8\,(B)$  - Inventory Status: OMPONENTS OF THIS PRODUCT ARE REGISTERED UNDER THE REGULATIONS OF THE OXIC SUBSTANCE CONTROL ACT.

DOMESTIC SUBSTANCE LIST:

--- SECTION 16. OTHER INFORMATION --

DISCLAIMER:
THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE TAKEN FROM SOURCES
BELLEVED TO BE ACCURATE AS OF THE DATE HERBOF; HOWEVER, THE COMPANY MAKES
NO WARRANTY WITH RESPECT TO THE ACCURACY OF THE INFORMATION OR THE
SUITABILITY OF THE RECOMMENDATIONS, AND ASSUMES NO LIABILITY TO ANY USER
THEREOF.

KEY TO ABBREVIATIONS: EQ=EQUAL LT=LESS THAN GT=GREATER THAN AP=APPROXIMATELY TR=TRACE ND=NO DATA AVAILABLE ORDER: 1033300054

**ITEM: 5YK76 - Cleaner Brake Parts** 

HAZMAT: 5YK76

#### HAZARD MATERIAL WARNING SHEET (HAZMAT)

# When shipment is complete, retain for daily Hazmat audit

GRAINGER SHIPPING INFORMATION

STOCK #

MSDS #

: A6508, A9252

FREIGHT CODE

: 0811

DOT PROPER SHIP NAME

: CONSUMER COMMODITY, ORM-D FLASHPOINT -18 DGS C, 0

DGS F

FLASHPOINT

: -18 DEGREES CELSIUS, 0 DEGREES FAHRENHEIT

UPS RESTRICTIONS

HAZARDOUS CLASS NUMBER : ORM-D

UN ID #

PACKING GROUP

SHIPPING LABEL

: Consumer Commodity ORM-D

LIMITED QUANTITY

: YES

:

CARTON INSTRUCTIONS

: CAN REPACK IN GRAINGER S CARTON

DOT/UPS EXEMPTION NO.

COMMENTS

: HAZARDOUS MATERIAL. DO NOT SHIP AIR!!

SHIPPING-PAPERS

LACARD OFFERED ? YES ( ) NO ()

PLEASE MARK ONE

# **ITEM: 5YK76 - Cleaner Brake Parts**

PICK\_REQ: 1033300054 MATERIAL SAFETY DATA SHEET (MSDS)

MSDS: A9252

IAL SAFETY DATA SHEET - A9252				. 491CII CF ############	######################################				
Associated Grainger Item: 5YK76 - Cleaner Brake Parts					PPE B				
MATERIAL SAFETY DATA SHEET					SECTION 6: ACCIDENTAL RELEASE MEASURES				
SECTION 1: PRODUCT & COMPANY IDENTIFICATION					SPILL/LEAK PROCEDURES: USUALLY NOT A PROBLEM WITH AEROSOLS. AREA SHOULD BE VENTILATED. ABSORBENT				
	RAKLEEN (R*) BRAKE			INATED		SHOULD BE USED TO PICK UP EXCESS MATERIAL. ALL USED AND UNUSED PRODUCT SHOULD BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL			
	(S): 05084, 05084					REGULATIONS.			
MANUFACTURED BY:	:					SECTION 7: HANDLING AND STORAGE			
CRC INDUSTRIES, 885 LOUIS DRIVE WARMINSTER, PA 1						HANDLING PROCEDURES: STORE IN A COOL, DRY AREA. AEROSOL CANS MUST BE MAINTAINED BELOW 120 DEG. F			
(215) 674~4300						TO PREVENT CANS FROM EXPLODING.			
24-HOUR EMERGENCY INFORMATION: CHEMTREC: (800) 424-9300					AEROSOL LEVEL: III  SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION				
	TION 2: COMPOSITIO	ON/INFORMATION	ON INCREDIENT	s	_	ENGINEERING CONTROLS:			
COMPONENT	CAS NUMBER \	ACGIH TLV	OSHA PEL	OTHER LIMITS	*	ADEQUATE TO PREVENT ACCUMULATION OF VAPORS. USE MECHANICAL MEANS IF NECESSARY TO MAINTAIN LEVELS BELOW THE EXPOSURE LIMITS. IF WORKING IN A CONFINED SPACE, FOLLOW APPLICABLE OSHA RESULATIONS.			
TOLUENE 108	-88-3 100 PI	PM 100 PP	M NE	22-32		RESPIRATORY:			
METHANOL	67-56-1	200 PPM	200 PPM	NE	15-2	USE NIOSH/MSHA COMPLIANT RESPIRATORS OR SELF-CONTAINED EREATHING APPARATUS SABOVE EXPOSURE LIMITS. FOLLOW OSHA REGULATIONS 29 CFR 1910.134.			
ACETONE 67-	-64-1 750 PI	M 750 PP	M NE	45-55		PROTECTIVE CLOTHING/EQUIPMENT:			
CARBON DIOXIDE	124-38-9	5000 PPM	10000 PPM	NE	<10	WEAR CHEMICALLY PROTECTIVE GLOVES AND SAFETY GLASSES. USE A SPLASH APRON AND BOOTS IF SPLASHING OCCURS.			
DIMETHOXYPROPANE	77-76-9	NE	NE	NE	<5	SECTION 9: PHYSICAL & CHEMICAL PROPERTIES			
	SECTION 3. U	AZARDS IDENTIFI	CATTON			PHYSICAL STATE: LIQUID			
EMERGENCY OVERVI		ALLANDS IDENTIFI	CALLON			SPECIFIC GRAVITY: 0.815			
	DR: CLEAR, WATER-	WHITE LIOUT				FREEZING POINT: ND			
DANGER:	AC. CAMPIC, WHILIC	wille moon.				EVAPORATION RATE: FAST			
EXTREMELY FLAMMAN	BLE. VAPOR HARMFUI LINDNESS IF SWALLO	L. HARMFUL OR F OWED EYE AND SK	ATAL IF SWALL IN IRRITANT.	OWED. MAY BE CONTENTS UNI	E DER	pH: NA			
NTIAL HEALTH	H EFFECTS:					APPEARANCE & ODOR: CLEAR, WATER-WHITE LIQUID			
INHALATION:						BOILING POINT: 131 DEG. F (INITIAL)			
DIZZINESS, BREATH TO RESPIRATORY T	HING DIFFICULTIES,	ANESTHETIC EF	FECTS, NAUSEA	AND IRRITAT	MOI	VAPOR PRESSURE: ND			
EYES: IRRITATION	ī					VAPOR DENSITY (AIR = 1): ND			
SKIN: IRRITATION	, DEFATTING					SOLUBILITY: PARTIALLY SOLUBLE IN WATER. SOLUBLE IN MOST ORGANIC LIQUIDS.			
INGESTION: NA						VOLATILE ORGANIC COMPOUNDS %: 45			
CARCINOGENICITY: OSHA: NO LARC: NO NTP: NO						G/L: 366 LBS./GAL: 3.0			
CHRONIC OVEREXPO	SURE:					SECTION 10: STABILITY AND REACTIVITY			
CONTACT DERMATTI	IS. CHRONIC OVERED	CPOSURE MAY CAU	SE NERVOUS SY	STEM DAMAGE.	•	STABILITY: STABLE			
MEDICAL CONDITIO	INS AGGRAVATED BY	EXPOSURE: BRE	ATHING PROBL	EMS.		HAZARDOUS POLYMERIZATION: NO			
	SECTION 4:	FIRST AID MEAS	TURES —			CHEMICAL INCOMPATIBILITIES: STRONG OXIDIZERS.			
INHALATION: REMOV	JE TO FRESH AIR. (	SIVE ARTIFICIAL	RESPIRATION	IF NECESSARY	<i>.</i>	MATERIALS TO AVOID: STRONG OXIDIZING AGENTS AND SOURCES OF IGNITION.			
EYES: FLUSH WITH	LARGE AMOUNTS O	F WATER FOR 15	MINUTES.			HAZARDOUS DECOMPOSITION PRODUCTS: NONE			
SKIN: REMOVE CON	TAMINATED CLOTHI	ng and wash ar	ea with soap	AND WATER.		SECTION 11: TOXICOLOGICAL INFORMATION			
INGESTION: CALL	A PHYSICIAN. DO	NOT INDUCE VOM	ITING.			LONG-TERM TOXICOLOGICAL STUDIES HAVE NOT BEEN CONDUCTED FOR THIS PRODUCT. SEE SECTION 3 OF THIS MSDS FOR ACUTE SYMPTOMS OF OVEREXPOSURE AND CARCINGENICITY INFORMATION.			
	—— SECTION 5: F.	IRE-FIGHTING ME	ASURES	<u></u>					
FLASH POINT: <0	DEG. F					SECTION 12: ECOLOGICAL INFORMATION —			
METHOD: TCC	:					ECOTOXICITY: NO DATA AVAILABLE.			
LEL: 1.0 UEL: 13.0					ENVIRONMENTAL FATE: NO DATA AVAILABLE FOR BIODEGRADATION.				
EXTINGUISHING ME	DIA: CO2, FOAM A	ND FOG				SECTION 13: DISPOSAL CONSIDERATIONS			
HAZARDOUS COMBUS	TION PRODUCTS: C	O2, CARBON MON	OXIDE			DISPOSAL:			
VE CONTAINERS		F POSSIBLE. US	e self-contai			THIS MATERIAL IF DISCARDED MAY BE HAZARDOUS WASTE UNDER U.S. EPA RCRA RESULATIONS. ALL DISPOSAL ACTIVITIES MUST COMPLY WITH FEDERAL, STATE AND LOCAL RESULATIONS. CONTACT YOUR LOCAL OR STATE ENVIRONMENTAL AGENCY FOR SPECIFIC RULES. DO NOT DUMP INTO SEMERS, ON THE GROUND OR INTO ANY BODY OF WATER.			
N: HEALTH 2						SECTION 14: TRANSPORTATION INFORMATION			
FLAMMABILITY 3	0					SHIPPING NAME: CONSUMER COMMODITY			
HMIS:						HAZARD CLASS: ORM-D			
HEALTH 2					1				

-62-

UN NUMBER: NA

PACKING GROUP: NA

LABEL: NA PLACARD: NA

CIAL PROVISIONS: NA

- SECTION 15: REGULATORY INFORMATION -

TSCA: ALL COMPONENTS ARE EITHER LISTED UNDER TSCA OR ARE EXEMPT.

SARA TITLE III:

SECTION 311/312: ACUTE, PRESSURE, FIRE

SECTION 313\*: TOLUENE, METHANOL

CERCLA/SUPERFUND (RQ): MIXTURE

EXTREMELY HAZARDOUS SUBSTANCES: NO

CALIFORNIA PROP 65: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS AND OTHER REPRODUCTIVE HARM.

\* SEE SECTION 2 FOR PERCENTAGE

- SECTION 16: ADDITIONAL INFORMATION

PREPARED BY: MICHELLE RUDNICK DATE: NOVEMBER 16, 2005

TECHNICAL INFORMATION: (800) 521-3168

THIS INFORMATION IS ACCURATE TO THE BEST OF CRC INDUSTRIES' KNOWLEDGE OR OBTAINED FROM SOURCES BELIEVED BY CRC TO BE ACCURATE. BEFORE USING ANY PRODUCT, READ ALL WARNINGS AND DIRECTIONS ON THE LABEL.

CAS: CHEMICAL ABSTRACT SERVICE
PPM: PARTS PER MILLION
TCC: TAG CLOSED CUP
LEL: LOWER EXPLOSIVE LIMIT
UEL: UPPER EXPLOSIVE LIMIT
UPE: PERSONAL PROTECTION EQUIPMENT
CCC: CLEVELAND CLOSED CUP
NA: NOT APPLICABLE
ND: NOT DETERMINED
NE: NOT DETERMINED
NE: NOT ESTABLISHED
(G/L: GRAMS PER LITER
LBS./GAL: POUNDS PER GALLON
RQ: REPORTABLE QUANTITY

**MATERIAL SAFETY DATA SHEET (MSDS)** This MSDS should be attached or kept with the respective product with which it is associated. SAPETY DATA SHEET - A1812 INHALATION: HEADACHES, DIZZINESS, ANESTHESTA AND UNCONSCIOUSNESS. Associated Grainger Items 2F139 EYES: IRRITATION MATERIAL SAFETY DATA SHEET SKIN, IRRITATION IDENTIFICATION -----CARCINOGENICITY: ODUCT NAME: CHAIN & WIRE ROPE LUBE ARROSOL OGES. NO IARC: NO PRODUCT NUMBER(S): 03050, 73050, 83050 NTP: NO MANUFACTURED BY: CHRONIC OVEREXPOSURE: CRC INDUSTRIES, INC. REPEATED OVEREXPOSITER MAY CAUSE HARM TO THE MERVOIR SYSTEM. 885 LOUIS DRIVE WARMINSTER, PA 18974 MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: PRE-EXISTING LUNG PROBLEMS. (215) 674-4300 24-HOUR EMERGENCY INFORMATION: -----SECTION 4: PIRST AID MEASURES -----CHEMTREC: (800) 424-9300 INEALATION: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NECESSARY. --SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS -----EYES: FLUSE WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. SKIN: REMOVE CONTAMINATED CLOTHING AND WASH AREA WITH SOAP AND WATER INGESTION: CALL A PHYSICIAN. DO NOT INDUCE VOMITING.

<u> </u>					
CAPONENT	CAS	ACGIH	OSHA	OTHER	*
	NUMBER	TLV	PEL	LINITS	
ACRYLIC COPOLYMER	68171-50-6	NE	NE	NE	<5
ORGANO MOLYBDENUM	68958-92-9	NE	NE	NE	<5

HEPTANE 142-82-5 400 PPM 400 PPM NR 60-70 PLASHPOINT: <20 DEG. P PROPANE 74-98-6 NE 1000 PPM NR 10-20 LEL: 1.8

1000 PPM 10-20 UBL: 9.5

-----SECTION 3: HAZARDS IDENTIFICATION -----

75-28-5

APPEARANCE & ODOR: LIGHT AMBER CLEAR LIQUID, SOLVENT ODOR

EXTREMELY PLANMABLE. HARMFUL OR FATAL IF SWALLOWED. CONTENTS UNDER PRESSURE.

TIAL HEALTH EFFECTS:

HMIS:

TSOBUTANE

EMERGENCY OVERVIEW

HEALTH . 2

FLAMMABILITY 4

EXTINGUISHING NEDIA: CO2, DRY CHEMICAL AND FOAM

-----SECTION 5: FIRE-FIGHTING MEASURES -----

HAZARDOUS COMBUSTION PRODUCTS: THERMAL - CARBON MONOXIDE AND CARBON DIOXIDE

FIRE-FIGHTING INSTRUCTIONS:

REMOVE CONTAINERS FROM FIRE AREA IF POSSIBLE. USE SELF-CONTAINED BREATHING

APPARATUS FOR FIRE FIGHTING. AEROSOL CANS MAY EXPLODE IF HEATED ABOVE

HEALTH

FLAMMABILITY 4

REACTIVITY 0

VAPOR DENSITY (AIR = 1): 4.5

pH: NA

REACTIVITY 0 ECTION 6: ACCIDENTAL RELEASE MEASURES -----SPILL/LEAK PROCEDURES: USUALLY NOT A PROBLEM WITH AEROSOLS, AREA SHOULD BE VENTILATED. ABSORBENT SHOULD BE USED TO PICK UP EXCESS MATERIAL. ALL USED AND UNUSED PRODUCT SHOULD BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL -----SECTION 7: HANDLING AND STORAGE -----STORE IN A COOL, DRY AREA. AEROSOL CANS MUST BE MAINTAINED BELOW 120 DEG. F MATERIALS TO AVOID: STRONG OXIDIZERS. TO PREVENT CANS FROM EXPLODING. ----- SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION -----ADEQUATE TO PREVENT ACCUMULATION OF VAPORS. USE MECHANICAL MEANS IF NECESSARY TO MAINTAIN LEVELS BELOW THE EXPOSURE LIMITS. IF WORKING IN A CONFINED SPACE, FOLLOW APPLICABLE OSHA REGULATIONS. RESPIRATORY: NIOSH/MSHA COMPLIANT RESPIRATORS OR SELF-CONTAINED BREATHING APPARATUS EXPOSURE LIMITS. FOLLOW OSHA REGULATIONS 29 CFR 1910.134. PROTECTIVE CLOTHING/EQUIPMENT: WEAR CHEMICALLY PROTECTIVE GLOVES AND SAFETY GLASSES. USE A SPLASE APRON AND ENVIRONMENTAL FATE: NO DATA AVAILABLE FOR BIODEGRADATION. ----- SECTION 9: PHYSICAL & CHEMICAL PROPERTIES -----PHYSICAL STATE: LIQUID APPEARANCE & ODOR: LIGHT AMBER CLEAR LIQUID, SOLVENT ODOR. SPECIFIC GRAVITY: 0.7135 BOILING POINT: 209 DEG. F FREEZING POINT: ND VAPOR PRESSURE: ND EVAPORATION RATE: NA IAL PROVISIONS: NA

-----SECTION 15: REGULATORY INFORMATION -----

TSCA: ALL COMPONENTS ARE EITHER LISTED UNDER TSCA OR ARE EXEMPT.

VOLATILE ORGANIC COMPOUNDS: %: 92.1 G/L: 599 LBS./GAL: 5 -----SECTION 10: STABILITY AND REACTIVITY -----STABILITY: STABLE HAZARDOUS POLYMERIZATION: NO CHEMICAL INCOMPATIBILITIES: STRONG OXIDIZERS. HAZARDOUS DECOMPOSITION PRODUCTS: NONE -----SECTION 11: TOXICOLOGICAL INFORMATION -----LONG-TERM TOXICOLOGICAL STUDIES HAVE NOT BEEN CONDUCTED FOR THIS PRODUCT. SEE SECTION 3 OF THIS MSDS FOR ACUTE SYMPTOMS OF OVEREXPOSURE AND CARCINOGENICITY INFORMATION. -----SECTION 12: ECOLOGICAL INFORMATION -----ECOTOXICITY: NO DATA AVAILABLE. -----SECTION 13: DISPOSAL CONSIDERATIONS -----DISPOSALE THIS MATERIAL IF DISCARDED MAY BE HAZARDOUS WASTE UNDER U.S. EPA RCRA REGULATIONS. ALL DISPOSAL ACTIVITIES MUST COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS. CONTACT YOUR LOCAL OR STATE ENVIRONMENTAL AGENCY FOR SPECIFIC RULES. DO NOT DUMP INTO SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER. -----SECTION 14: TRANSPORTATION INFORMATION -----SHIPPING NAME: CONSUMER COMMODITY HAZARD CLASS: ORM-D UN NUMBER: NA PACKING GROUP: NA LABEL: NA PREPARED BY: ADAM M. SELISKER DATE: JULY 5, 2001 TECHNICAL INFORMATION: (800) 521-3168 CRC #: 572C

SOLUBILITY: NOT SOLUBLE IN WATER,

- 65 -

SARA TITLE III:

SECTION 311/312: ACUTE, PRESSURE

SECTION 313\*: NONE

SUPERFUND (RQ): NA

EXTREMELY HAZARDOUS SUBSTANCES: NO

CALIFORNIA PROP 65:

THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE

CANCER, BIRTH DEFECTS AND OTHER REPRODUCTIVE HARM.

\* SEE SECTION 2 FOR PERCENTAGE

-----SECTION 16: ADDITIONAL INFORMATION -----

THIS INFORMATION IS ACCURATE TO THE BEST OF CRC INDUSTRIES' KNOWLEDGE OR OBTAINED FROM SOURCES BELIEVED BY CRC TO BE ACCURATE. BEFORE USING AMY PRODUCT, READ ALL WARNINGS AND DIRECTIONS ON THE LABEL.

CAS: CHEMICAL ABSTRACT SERVICE

PPM: PARTS PER MILLION

TCC: TAG CLOSED CUP

LEL: LOWER EXPLOSIVE LIMIT

UEL: UPPER EXPLOSIVE LIMIT

PPE: PERSONAL PROTECTION EQUIPMENT

NA: NOT APPLICABLE

ND: NOT DETERMINED

NE: NOT ESTABLISHED

G/L: GRAMS PER LITER

LBS./GAL: POUNDS PER GALLON

RQ: REPORTABLE QUANTITY

### **ITEM: 1D264 - DEGREASING SOLVENT**

MSDS: A3237

PICK\_REQ: 0180644121

**MATERIAL SAFETY DATA SHEET (MSDS)** 

ociated Grainger	[tem: 1D264 -	DEGREASI	NG SOLVENT			NFPA:			
MATERIAL SAFETY DATA	SHEET					HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0			
SECTION	ON 1: PRODUCT	6 COMPANY	IDENTIFICA	TION		HMIS:			
PRODUCT NAME: HEAVY DUTY DEGREASER IT AEROSOL  PRODUCT NUMBER (S): 03199, 73120					HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0 PPE: B				
MANUFACTURED BY: CRC INDUSTRIES, INC. 885 LOUIS DRIVE WARMINSTER, PA 18974					_	n 6: accidental release measures ————————————————————————————————————			
	(215) 674-	4300				SPILL/LEAK PROCEDURES: USUALLY NOT A PROBLEM WIT	H AEROSOLS. AREA SHOULD BE VENTILATED. ABSORBENT		
4 HR. EMERGENCY INFO HEMIREC:	RMATION: (800) 424	9300				SHOULD BE DISPOSED OF IN REGULATIONS.	P EXCESS MATERIAL, ALL USED AND UNUSED PRODUCT N ACCORDANCE WITH FEDERAL, STATE AND LOCAL		
	: COMPOSITION			ODIENTS		SE	CTION 7: HANDLING AND STORAGE -		
OMPONENT	CAS NUMBER	ACGIH TLV	OSHA PEL	OTHER LIMITS	*	HANDLING PROCEDURES: STORE IN A COOL, DRY AREA TO PREVENT CANS FROM EXP	A. AEROSOL CANS MUST BE MAINTAINED BELOW 120 DEG. F		
IPROPYLENE GLYCOL ETHYL ETHER	34590-94-8	100 PPM	100 PPM	NE	20-40	AEROSOL LEVEL: III			
ETROLEUM DISTILLATE	64742-88-7	NE	400 PPM	100 PPM	5-15	SECTION 8: I	exposure controls/personal protection ————		
ARBON DIOXIDE	124-38-9		10000 PPM		2-4	ENGINEERING CONTROLS:			
PM ACEIATE	88917-22-0	NE	NE	NE	10-20	NECESSARY TO MAINITAIN LEV	MULATION OF VAPORS. USE MECHANICAL MEANS IF FILS BELOW THE EXPOSURE LIMITS. IF WORKING IN A		
ETROLEUM DISTILLATE ETROLEUM DISTILLATE	64771-72-8	NE	NE	100 PPM	30-50 E-15	CONFINED SPACE, FOLLOW A RESPIRATORY:	APPLICABLE OSHA REGULATIONS.		
	64742-48-9		400 PPM	300 PPM	5-15	USE NIOSH/MSHA COMPLIANT	RESPIRATORS OR SELF-CONTAINED EREATHING APPARATUS FOLLOW OSHA REGULATIONS 29 CFR 1910.134.		
TERGENCY OVERVIEW:	SECTION 3: HAZ	CAKUS IDEN	FIFTCATION .				E GLOVES AND SAFETY GLASSES. USE A SPLASH APRON		
PPEARANCE & ODOR: LEAR LIQUID WITH SLI	GHT ODOR.					AND BOOTS IF SPLASHING C			
NGER: VABLE. HARMFUL OR	FATAL IF SW	ALLOWED. C	ONTENTS UN	DER PRESSU	Œ.	PHYSICAL STATE:	9: PHYSICAL & CHEMICAL PROPERTIES		
CTIAL HEALTH EFFE	CTO:					APPEARANCE & OFOR:	CLEAR LIQUID, SLIGHT ODOR		
HALATION:	מייט ארייט אייט אייט אייט אייט	ATT CHEMINAY	MODIFICIA C	VOULA DEDIV	TDC	SPECIFIC GRAVITY:	0.83		
RITATION TO RESPIRA ES:	HORY TRACT A	ND CENTRAL	. NERVOUS S	YSTEM EFFEC	ars.	BOILING POINT:	> 375 DEG. F		
						FREEZING POINT:	NA		
IN:						VAPOR PRESSURE:	5 MM @ 25 DEG. C		
GESTION:						EVAPORATION RATE:	SLOW		
						VAPOR DENSITY (AIR=1):	> 5		
RCINOGENICITY: SHA: NO RC: NO TP: NO						PH: SOLUBILITY:	NA - SLIGHT		
RONIC OVEREXPOSURE: DNE KNOWN TO HUMANS.						VOLATILE ORGANIC COMPOUN %: G/L:	7DS 86.0 715		
DICAL CONDITIONS AG	GRAVATED BY	EXPOSURE:				LBS/GAL:	5.96		
	- Section 4: 1	בי הבי אדה ב	MPACITOPC -			STABILITY:	ON 10: STABILITY AND REACTIVITY		
HALATION: MOVE TO FRESH AIR.				DCDCCXDV		STABLE			
TES: JUSH WITH LARGE AMOU				ECESSARI,		HAZARDOUS POLYMERIZATION: NO CHEMICAL INCOMPATIBILITIES:			
CIN: MOVE CONTAMINATED C				AND WATER.		STRONG OXIDIZERS. MATERIALS TO AVOID:			
INGESTION: 2ALL A PHYSICIAN. DO NOT INDUCE VOMITING.					STRONG OXIDIZING AGENTS. HAZARDOUS DECOMPOSITION PRODUCTS:				
	ECTION 5: FIR	E-FIGHTING	MEASURES -			NONE			
ASHPOINT: 142 DEG.							N 11: TOXICOLOGICAL INFORMATION		
THOD: TCC						SEE SECTION 3 OF THIS MS	LONG-TERM TOXICOLOGICAL STUDIES HAVE NOT BEEN CONDUCTED FOR THIS PRODUCT. SEE SECTION 3 OF THIS MSDS FOR ACUTE SYMPTOMS OF OVEREXPOSURE AND CARCINOGENICITY INFORMATION.		
L: 1.1 14.0							TON 13. POOLOGICAL DEPONDE		
GUISHING MEDIA: WATER FOG OR CO	2, AND DRY CI	HEMICAL				ECOTOXICITY:	SECTION 12: ECOLOGICAL INFORMATION ————————————————————————————————————		
ALARDOUS COMBUSTION :						NO DATA AVAILABLE. ENVIRONMENTAL FATE:			
RE-FIGHTING INSTRUC	TIONS:					NO DATA AVAILABLE FOR BI	ODEGRADATION.		
MEMOVE CONTAINERS FROM FIRE AREA IF POSSIBLE. USE SELF-CONTAINED BREATHING PPARATUS FOR FIRE FIGHTING. AEROSOL CANS MAY EXPLODE IF HEATED ABOVE 120					SECTION 13: DISPOSAL CONSIDERATIONS				

DISPOSAL DISPOSAL:
THIS MATERIAL IF DISCARDED MAY BE HAZARDOUS WASTE UNDER U.S. EPA RCRA
REGULATIONS. ALL DISPOSAL ACTIVITIES MUST COMPLY WITH FEDERAL, STATE AND
LOCAL REGULATIONS. CONTACT YOUR LOCAL OR STATE ENVIRONMENTAL AGENCY FOR
SPECIFIC RULES. DO NOT DUMP INTO SEMERS, ON THE GROUND OR INTO ANY BODY OF WATER.

SECTION 14:	TRANSPORTATION INFORMATION —
PING NAME:	CONSUMER COMMODITY
HAZARD CLASS:	ORM-D
UN NUMBER:	NA
PACKING GROUP:	NA.
LABEL:	NA
PLACARD:	NA
CDECTAL DECUTETONS.	ATR

- SECTION 15: REGULATORY INFORMATION

TSCA: ALL COMPONENTS ARE EITHER LISTED UNDER TSCA OR ARE EXEMPT.

SARA TITLE III: SECTION 311/312: SECTION 313\*:

ACUTE, PRESSURE NONE

CERCLA SUPERFUND (RQ):

NA

EXTREMELY HAZARDOUS SUBSTANCES: NO

THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS AND OTHER REPRODUCTIVE HARM.

\* SEE SECTION 2 FOR PERCENTAGE.

- SECTION 16: ADDITIONAL INFORMATION -

PREPARED BY:

ADAM M. SELISKER

DATE: MARCH 13, 2002 TECHNICAL INFORMATION: (800) 521-3168

CRC #:

490A

THIS INFORMATION IS ACCURATE TO THE BEST OF CRC INDUSTRIES' KNOWLEDGE OR OBTAINED FROM SOURCES BELIEVED BY CRC TO BE ACCURATE. BEFORE USING ANY PRODUCT, READ ALL WARNINGS AND DIRECTIONS ON THE LABEL.

LEL: UEL: PPE: COC: NA: ND:

CHEMICAL ABSTRACT SERVICE
PARTS PER MILLION
TAG CLOSED CUP
LOWER EXPLOSIVE LIMIT
UPPER EXPLOSIVE LIMIT
PERSONAL PROTECTION EQUIPMENT
CLEVELAND OPEN CUP
NOT APPLICABLE
NOT DETERMINED
NOT ESTABLISHED
GRAMS PER LITER
POUNDS PER GALLON
REPORTABLE QUANTITY

This MSDS should be attached or kept with the respective product with which it is associated.

TAL SAFETY DATA SHEET - A0485

ociated Grainger Items

4KL98, 4KL99, 5B205

LOCTITE CORPORATION

01/

30/00

ROCKY HILL, CONNECTICUT 06067 EMERGENCY PHONE ( (860) 571 5100

QUICK SET (TM)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

ITEM NO.:

46551

PRODUCT TYPE:

CYANOACRYLATE ESTER

2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENTS

CAS NO.

90-95

ETHYL CYANOACRYLATE

7085-85-0

POLY (METHYL METHACRYLATE)

5-10

HYDROOUINONE

0.1-1

9011-14-7 123-31-9

INGREDIENTS WHICH HAVE EXPOSURE LIMITS

EXPOSURE LIMITS (TWA)

ACGIH

OSHA

OTHER

INGREDIENTS

(TLV)

ETHYL CYANOACRYLATE

NONE NONE

HYDROQUINONE

2 MG/M3 TWA

2 MG/M3 TWA 4 MG/M3 STEL

OSHA

COSURE LIMITS (STEL)

ACGIH

0.2 PPM TWA

2 MG/M3 TWA

GREDIENTS

(TLV) (PEL)

3. HAZARDS IDENTIFICATION

TOXICITY:

SKIN CONTACT MAY CAUSE BURNS.

BONDS SKIN RAPIDLY AND STRONGLY.

SKIN AND EYE IRRITANT.

ESTIMATED ORAL LD50 MORE THAN 5000MG/KG.

ESTIMATED DERMAL LD 50 MORE THAN 2000 MG/KG.

PRIMARY ROUTES OF ENTRY:

SIGNS AND SYMPTOMS

OF EXPOSURE:

VAPOR IS IRRITATING TO EYES AND MUCCUS MEMBRANES

ABOVE TLV. PROLONGED AND REPEATED OVEREXPOSURE

TO

VAPORS MAY PRODUCE SYMPTOMS OF NON-ALLERGIC

ASTHMA IN SENSITIVE INDIVIDUALS.

EXISTING CONDITIONS

AGGRAVATED BY EXPOSURE:

NONE KNOWN

NONE KNOWN

LITERATURE REFERENCED

CARCINOGEN

INGREDIENTS

TARGET ORGAN AND OTHER HEALTH EFFECTS NTP IARC

ETHYL CYANOACRYLATE

ALG IRR RES

IRR

NO NO NO NO N/A NO

POLY (METHYL METHACRYLATE) LOCTITE CORPORATION

01/

ROCKY HILL, CONNECTICUT 06067

EMERGENCY PHONE: (860) 571-5100

46551

3. HAZARDS IDENTIFICATION

CONTINUED)

HYDROQUINONE

AC3 BLO BNM CNS EYE IMM IRR LIV NO N/A NO

BREVIATIONS

A NOT APPLICABLE

AC3 ACGIH ANIMAL CARCINOGEN.

ALG ALLERGEN

BNM BONK MARROW

CNS CENTRAL NERVOUS SYSTEM

IMM IMMUNE SYSTEM

IRR IRRITANT

LIV LIVER

MUT MUTAGEN

RES RESPIRATORY

SKI SKIN

THY THYROID

4. FIRST AID MEASURES

EMERGENCY PROCEDURES.

INHALATION:

REMOVE TO FRESH AIR. IF SYMPTOMS PERSIST,

OBTAIN MEDICAL ATTENTION.

EMERGENCY PROCEDURES.

EMERGENCY PROCEDURES.

5. FIRE FIGHTING MEASURES

PLASH POINT:

150 - 200F

METHOD: TAG CLOSED CUP

RECOMMENDED

CARBON DIOXIDE, FOAM, DRY CHEMICAL

EXTINGUISHING AGENTS: SPECIAL FIREFIGHTING

PROCEDURES:

NOT AVAILABLE

HAZARDOUS PRODUCTS FORMED

BY FIRE OR THERMAL DECOMP IRRITATING ORGANIC VAPORS

UNUSUAL FIRE OR

EXPLOSION HAZARDS:

NONE

EXPLOSIVE LIMITS:

BY VOLUME IN AIR) LOWER NOT AVAILABLE BY VOLUME IN AIR) UPPER NOT AVAILABLE

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE

OF SPILL OR LEAK:

FLOOD WITH WATER TO POLYMERIZE COMPLETELY. SOAK

UP WITH AN INERT ABSORBENT.

LOCTITE CORPORATION

30/00

OF 07

ROCKY HILL, CONNECTICUT 06067 EMERGENCY PHONE: (860) 571-5100

ITRM NO. :

46551

7. HANDLING AND STORAGE

SAFE STORAGE:

STORE AT OR BELOW 75 DEG. P

(CONTACT LOCTITE CUSTOMER SERVICE 1-800-243-4874 FOR SHELF LIFE

INFORMATION)

HANDLING:

AVOID CONTACT WITH SKIN AND EYES. AVOID

BREATHING

VAPOR.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

EYES:

SAFETY GLASSES OR GOGGLES.

SKIN:

NITRILE OR POLYETHYLENE GLOVES AND APRONS.

DO NOT USE COTTON.

VENTILATION:

POSITIVE DOWN-DRAFT EXHAUST VENTILATION SHOULD BE PROVIDED TO MAINTAIN VAPOR CONCENTRATION BELOW

PIRATORY

NOT AVAILABLE

SEE SECTION 2 FOR EXPOSURE LIMITS.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

CLEAR LIQUID

ODOR:

PUNGENT

-70-

BOTILING POINTS

MORE THAN 300P

DOES NOT APPLY

1.09 AT 75F

SOLUBILITY IN WATER:

POLYMERIZED BY WATER.

PECIFIC GRAVITY

LATILE ORGANIC COMPOUND

(EPA METHOD 24)

93.0%; 1013.7 G/L

VAPOR PRESSURE:

LESS THAN 0.2MM

VAPOR DENSITY:

APPROXIMATELY 3

EVAPORATION RATE

(ETHER = 1)

NOT AVAILABLE

10. STABILITY AND REACTIVITY

STABILITY:

STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

TNCOMPATIBILITY.

POLYMERIZED BY CONTACT WITH WATER, ALCOHOLS,

AMINES, ALKALIES.

CONDITIONS TO AVOID:

NOT AVAILABLE

HAZARDOUS DECOMPOSITION

PRODUCTS (NON-THERMAL): NONE

11. TOXICOLOGICAL INFORMATION

SEE SECTION 3.

LOCTITE CORPORATION

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ROCKY HILL, CONNECTICUT 06067

EPA AND LOCAL REGULATIONS.

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12. ECOLOGICAL INFORMATION

NO DATA AVAILABLE

13. DISPOSAL CONSIDERATIONS OMMENDED METHODS OF

SPOSAL

POLYMERIZE AS ABOVE. INCINERATE IN ACCORDANCE

EPA HAZARDOUS WASTE NUMBER

NH - NOT A RCRA HAZARDOUS WASTE MATERIAL

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

DOMESTIC GROUND TRANSPORT

PROPER SHIPPING NAME: UNRESTRICTED (NOT MORE THAN 450 LITERS);

COMBUSTIBLE LIQUIDS, N.O.S. (CYANOACRYLATE ESTER)

(MORE THAN 450 LITERS)

HAZARD CLASS OR

DIVISION:

UNRESTRICTED (NOT MORE THAN 450 LITERS)

COMBUSTIBLE LIQUID (MORE THAN 450 LITERS)

IDENTIFICATION NUMBER: NONE (NOT MORE THAN 450 LITERS);

NA 1993 (MORE THAN 450 LITERS)

MARINE POLLUTANT:

IATA

PROPER SHIPPING NAME:

UNRESTRICTED (NOT MORE THAN ONE PINT);

AVIATION REGULATED LIQUID, N.O.S., (CYANOACRYLATE

BSTER) (MORE THAN ONE PINT)

CLASS OR DIVISION:

UNRESTRICTED (NOT MORE THAN ONE PINT);

CLASS 9 (MORE THAN ONE PINT)

UN OR ID NUMBER:

NONE (NOT MORE THAN ONE PINT) UN 3334 (MORE THAN ONE PINT)

REGULATORY INFORMATION

CA PROPOSITION 65:

NOT AVAILABLE

. 16. OTHER INFORMATION

ESTIMATED NFPA(R) CODE:

HEALTH HAZARD:

FIRE HAZARD:

REACTIVITY HAZARD:

SPECIFIC HAZARD:

DOES NOT APPLY

TIMATED HMIS(R) CODE:

HEALTH HAZARD:

FLAMMABILITY HAZARD: PRACTIVITY HAZARDS:

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16. OTHER INFORMATION

(

CONTINUED)

PERSONAL PROTECTION:

SEE SECTION 8.

NFPA IS A REGISTERED TRADEMARK OF THE NATIONAL FIRE PROTECTION ASSN.

HMIS IS A REGISTERED TRADEMARK OF THE NATIONAL PAINT AND COATINGS

ASSN.

PREPARED BY:

STEPHEN REPETTO

TITLE:

RESEARCH CHEMIST, ENVIRONMENTAL HEALTH & SAFETY

COMPANY:

LOCTITE CORP., 1001 TR BR CR, ROCKY HILL CT 06067

(24HR.) PHONE:

(860) 571-5100

REVISION DATE:

JANUARY 26, 1999

REVISION: 0031

LOCTITE CORPORATION

01/

30/00

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PPLEMENT

INFORMATION FOR FIRST AID AND CASUALTY ON TREATMENT FOR ADHESION OF HUMAN SKIN TO ITSELF IF CAUSED BY CYANOACRYLATE ADHESIVES CYANOACRYLATE ADMESIVE IS A VERY PAST SETTING AND STRONG ADMESIVE. IT BONDS HUMAN TISSUE INCLUDING SKIN IN SECONDS. EXPERIENCE HAS SHOWN THAT ACCIDENTS DUE TO CYANOACRYLATES ARE HANDLED BEST BY PASSIVE. NONSURGICAL FIRST AID. TREATMENT OF SPECIFIC TYPES OF ACCIDENTS ARE GIVEN BELOW.

SKIN CONTACT

REMOVE EXCESS ADHESIVE. SOAK IN WARM, SOAPY WATER. THE ADHESIVE WILL COME LOOSE FROM THE SKIN IN SEVERAL HOURS. CURED ADHESIVE DOES NOT PRESENT A HEALTH HAZARD EVEN WHEN BONDED TO THE SKIN.

AVOID CONTACT WITH CLOTHES, FABRICS, RAGS, OR TISSUE. CONTACT WITH THESE MATERIALS MAY CAUSE POLYMERIZATION. THE POLYMERIZATION OF LARGE AMOUNTS OF ADHESIVE WILL GENERATE HEAT CAUSING SMOKE, SKIN BURNS, AND STRONG, IRRITATING VAPORS. WEAR NITRILE OR POLYETHYLENE GLOVES AND APRON WHEN HANDLING LARGE AMOUNTS OF ADHESIVE.

SKIN ADHESION

FIRST IMMERSE THE BONDED SURFACES IN WARM. SOAPY WATER. PEEL OR ROLL THE SURFACES APART WITH THE AID OF A BLUNT EDGE, E.G. A SPATULA OR A TEASPOON HANDLE: THEN REMOVE ADHRSIVE FROM THE SKIN WITH SOAP AND WATER. DO NOT TRY TO PULL SURFACES APART WITH A DIRECT OPPOSING ACTION.

LID TO EYELID OR EYEBALL ADHESION

THE EVENT THAT EYELIDS ARE STUCK TOGETHER OR BONDED TO THE EYEBALL, VASH THOROUGHLY WITH WARM WATER AND APPLY A GAUZE PATCH. THE EYE WILL OPEN WITHOUT FURTHER ACTION. TYPICALLY IN 1-4 DAYS. THERE WILL BE NO RESIDUAL DAMAGE. DO NOT TRY TO OPEN THE EYES BY MANIPULATION. ADHRSIVE ON THE EYEBALL

CYANOACRYLATE INTRODUCED INTO THE EYES WILL ATTACH ITSELF TO THE
EYE PROTEIN AND WILL DISASSOCIATE PROM IT OVER INTERMITTENT PERIODS,
GENERALLY COVERING SEVERAL HOURS. THIS WILL CAUSE PERIODS OF WEEPING
FILL CLEARANCE IS ACHIEVED. DURING THE PERIOD OF CONTAMINATION,
SUBLE VISION MAY BE EXPERIENCED TOGETHER WITH A LACHEMMATORY EFFECT,
AND IT IS IMPORTANT TO UNDERSTAND THE CAUSE AND REALIZE THAT
DISASSOCIATION WILL NORMALLY OCCUR WITHIN A MATTER OF HOURS, EVEN WITH
GROSS CONTAMINATION.

MOTITH

IF LIPS ARE ACCIDENTALLY STUCK TOGETHER, APPLY LOTS OF WARM WATER TO
THE LIPS AND ENCOURAGE MAXIMUM WETTING AND PRESSURE FROM SALIVA INSIDE
THE MOUTH. PEEL OR ROLL LIPS APART. DO NOT TRY TO PULL THE LIPS
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#### SUPPLEMENT

WITH DIRECT OPPOSING ACTION.

IT IS ALMOST IMPOSSIBLE TO SWALLOW CYANOACRYLATE. THE ADHESIVE SOLIDIFIES AND ADHERES IN THE MOUTH. SALIVA WILL LIFT THE ADHESIVE IN ONE HALF TO TWO DAYS. IN CASE A LUMP FORMS IN THE MOUTH, POSITION THE PATIENT TO PREVENT INGESTION OF THE LUMP WHEN IT DETACHES.

BURNS

CYANOACRYLATES GIVE OFF HEAT ON SOLIDIFICATION. IN RARE CASES A LARGE DROP WILL INCREASE IN TEMPERATURE ENOUGH TO CAUSE A BURN.

BURNS SHOULD BE TREATED NORMALLY AFTER THE LUMP OF CYANOACRYLATE IS LEASED FROM THE TISSUE AS DESCRIBED ABOVE.

RGERY

TIT SHOULD NEVER BE NECESSARY TO USE SUCH A DRASTIC METHOD TO SEPARATE ACCIDENTALLY BONDED SKIN.

APPLICATION ASSISTANCE . BROWSE CATALOG . DISTRIBUTOR LOCATOR . DATASHBETS . WHAT'S NEW

ABOUT LOCTITE . CONTACT LOCTITE . LITERATURE . LOCTITE WORLD WIDE . SEARCH .

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# Material Safety Data Sheet

## **OSPHO**METAL TREATMENT

QUICK IDENTIFIER.
Common Name (used on label and list)

May be used to comply with OSHA's Hazard Communication Standard, 29CFR 1910 1200 Standard must be consulted for specific requirements

2 1 ACID NFPA 704

SECTION 1 -		··		· 					·	ACI
Manufacturer's Name T	HE SKYBI	RYTE COMPAN	ſŶ				;			NFPA
Address		KINS AVENUE				Emergency Telephone No		300 (CHEN	TRECX	. *
City, State, and ZIP	CLEVELA	ND, OHIO 441	14			Other Information Calls	216-771			
Signature of Person Responsible for Prep	arstımı (Optıo	nai) S. L. PI	TCHER			Date Prepared	JANUAI	RY 15, 200	3.4 /	
SECTION 2 -	HAZAR	DOUS INGRI	EDIENTS	/IDENTIT	Y		C Made - 1 - 1 - 1			
Sazardous Componer	nt(s) (chemical	& соштов пате(s)	)	OS PE	Ha L	ACGIH TLV	Other Expo	sure	(optiona)	CA NO
PHOS	PHORIC A	CID (75%)		I	me/m	3 1 m⊈/m	3 mg/m	STEL	45.0%	7664-38
Section 313		otification: 313 of the Emer		ct contains th					<del></del>	
		CHEMICAL N	IAME:	% E	Y WI	EGHT	DC	OT Haza	rd: Cla	ss 8
						······································				
	ents of this	PHOSPHORIC A	l in complia	nce withSecti		of the Toxic	<del></del>	N# 1805 Control Ac	t (T.S.C.A	1.)
This inform	ents of this	product are listed	l in complia	nce withSecti	on 15 c	of the Toxic	<del></del>		t (T.S.C.A	1.)
This inform	ents of this pation should	product are listed	l in complia	nce withSectineets that are decreased.  ACTERIST  Spec.fix	on 15 c	of the Toxic	Substance (	Control Ac		1.)
This inform	ents of this pation should	product are listed i be included in a	l in complia	nce withSection in the section in th	on 15 c	of the Toxic	Substance (	Control Ac	t (T.S.C.A	1.)
This inform  ECTION 3 - F	ents of this pation should	product are listed the included in a  L & CHEMICA  Vapor Density (Ar = 1)	in compliant in Compliant in MSDS sh	nce withSectineets that are decreased.  ACTERIST  Spec.fix	on 15 c distribu	of the Toxic	Substance (	Control Ac		1.)
This inform  ECTION 3 - Forthing 240  Shibility I	ents of this lation should PHYSICA	product are listed the included in a  L & CHEMICA  Vapor Density (Ar = 1)	in compliant in CHAR.  N/A  Tong acid)	ACTERIST  Specific Gravity in  Reactivity Water	on 15 c	of the Toxic sted.	Substance (	Control Ac		1.)
This inform  ECTION 3 - F  colling ount 240  shibility I  Water I  ppearance of Odor GREEN	ents of this lation should PHYSICA	product are listed if be included in a  L & CHEMICA  Vapor Density (Ar = 1)  pH < 2 (st	in compliant MSDS shall make the manual ma	ACTERIST  Specific Gravity in  Reactivity Water	on 15 c	of the Toxic sted.  1 22÷/04  NONE	Substance (	Control Ac		1.)
This inform  ECTION 3 - F  coling 240  Shibility I  Water  Preservance GREEN  ECTION 4 -  ash	ents of this lation should PHYSICA	vapor Density (Ar = 1) pH < 2 (St	in compliant MSDS shall MSDS shal	ACTERIST  Specific Gravity (in  Reactivity) Water  DOR Point	on 15 cdistribution ICS	of the Toxic sted.  1 22÷/04  NONE	Vapor Pressu	Control Ac		(.)
This inform  ECTION 3 - F  coling 240  Shibility I  Water P  PPERIOD 4 -  ash N/AF C  Ito-Ignition	ents of this ration should PHYSICAL F 100% N LIQUID V FIRE & 1	vapor Density (Ar = 1) pH < 2 (St	in compliant in co	ACTERIST  Specific Gravity (in  Reactivity) Water  DOR Point	on 15 cdistribution ICS	of the Toxic sted.  1 22÷/04  NONE	Substance C Vapor Pressu	Control Ac		(.)
This inform  ECTION 3 - F  coling 240  Shibility 240  Shibility Arter  Poperance GREEN  ECTION 4 -  ash N/AF C  ato-Ignition  Into-Ignition  Imperature  Secual Fire	ents of this lation should PHYSICAL F  100% N LIQUID V  FIRE & I  Method Used N/A	vapor Density (Ar = 1) pH < 2 (st WITH TYPICAL EXPLOSION NON-FLAMIN Extingui	in compliant in co	ACTERIST Specific Gravity fr Reactivity Water DOR Point	on 15 cdistribution ICS	of the Toxic sted.  1 22÷/04  NONE	Vapor Pressu	Control Ac		(1.)
This inform  SECTION 3 - F  Colling 240  Collibrative I  Water presurance GREEN  SECTION 4 -	ents of this action should PHYSICAL F  100% N LIQUID V  FIRE & I  Method Used N/A  N/A	vapor Density (Ar = 1) pH < 2 (st WITH TYPICAL EXPLOSION NON-FLAMIN Extingui	in compliant MSDS shall make shal	ACTERIST Specific Gravity if Reactivity Water DORPoint mable Limits r % by Volume N/A	on 15 cdistribution of the control o	of the Toxic sted.  1.22÷/04  NONE  1/A  N/A	Vapor Pressu UEL Upper	Control Ac	UNK	(.)

Precautions to be Taken in Handling and Storage  USE GOGGLES AND/OR FACE SHIELDS, RUBBER APRONS, GLOVES AND BOOTS WHERE  SPLASHING OR LIQUID CONTACT MAY BE EXPECTED.  Other Precautions  AIRBORNE MIST - USE NIOSH/MSHA ACID GAS RESPIRATOR WITH FULL FACE PIECE.  KEEP STORED IN SUITABLE CONTAINER.  Steps to be Taken in Case Material is Released or Spilled  WEAR SUITABLE PROTECTIVE CLOTHING. EYE PROTECTION, AND RESPIRATOR.  NEUTRALIZE WITH SODA ASH AND FLUSH THE AREA WITH LARGE AMOUNTS OF WATER.  Waste Disposal Methods (Consult federal, state, and local regulations)  NEUTRALIZE WITH SODA ASH OR LIME AND DISCHARGE INTO A  TREATMENT SYSTEM IN ACCORDANCE WITH LOCAL REGULATIONS.  SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES  Respiratory Protection Special ADEQUATE TO Mechanical (General) N/A N/A N/A N/A N/A Protective ACID RESISTANT Protection CHEMICAL GOGGLES  Other Protective Source ACID RESISTANT Protection CHEMICAL GOGGLES  Other Protective Store AND HANDLE AS STRONG ACID. WASH BEFORE EATING OR DRINKING.	SECTION 5- PHYSICAL HAZARDS (REACTIVITY DATA)
REACTION WITH METALS WILL LIBERATE HYDROGEN GAS. (EXTREMELY FLAMMABILE!)  Hauseing May Court	Stability Unstable Conditions Stable Xo Avoid AVOID CONTACT WITH STRONG ALKALIES
Decomposition Products  PHOSPITURE ACID FUNES, STRONG REALANT  Residence May Secure Conditions  Name of the Conditions of Avoid Contact with Strong Alkalies, (WILL PRODUCE  VIOLENT ACID/BASE NEUTRALIZATION REACTION)  SECTION 6 - HEALTH HAZARDS  I Antie Spen said I	Incompatability (Materials to Avoid)  REACTION WITH METALS WILL LIBERATE HYDROGEN GAS. (EXTREMELY FLAMMABLE!)
Decomposition Products  PHOSPITURIC ACID FUNES. (STRONG RRITANT)  RESERVATIONS  WILL PRODUCE  VIOLENT ACID/BASE NEUTRALIZATION REACTION)  SECTION 6 - HEALTH HAZARDS  I ACRUE SEPARATORY FUNCTION  SECTION 6 - HEALTH HAZARDS  I ACRUE SEPARATORY FUNCTION  SEPARATORY FUNCTION.  CHEMICAL Justed as Carcinogen  RESPIRATORY FUNCTION.  CHEMICAL Justed as Carcinogen  PROBLEM  PROB	
Polymeratures will Not Over: Dyapa Avond VIOLENT ACID/BASE NEUTRALIZATION REACTION)  SECTION 6 - HEALTH HAZARDS  I Acate SIRONG (RRITANT - SLIGHTLY TOXIC SLIGHTLY TOXIC - CAUSES BURNS TO EXPOSED TISSUE Symptoms of Exposure LIQUID IS CORROSIVE TO EYES AND SKIN, MIST PRODUCES IRRITATION TO EYES, NOSE, THROAT, AND LUNGS.  Medical Conditions Generally Emphrysema, ASTHMA OR OTHER CONDITIONS RESULTING IN DECREASED RESPIRATORY FUNCTION.  CHIRCHAL LIPIDA SE CARTROGEN PRESENTATION FUNCTION OF THE LARGE QUANTITIES OF WATER  "DO NOT INDUCE VOMITING" SKIN AND EYES - FLUSH WITH WATER  "DO NOT INDUCE VOMITING" SKIN AND EYES - FLUSH WITH WATER  "DO NOT INDUCE VOMITING" SKIN AND EYES - FLUSH WITH WATER  "DO NOT INDUCE VOMITING" SKIN AND EYES - FLUSH WITH WATER  "DO NOT INDUCE VOMITING" SKIN AND EYES - FLUSH WITH WATER  "DO NOT INDUCE VOMITING" SKIN AND EYES - FLUSH WITH WATER  "DO NOT INDUCE VOMITING" SKIN AND EYES - FLUSH WITH WATER  "DO NOT INDUCE VOMITING" SKIN AND EYES - FLUSH WITH WATER  "DO NOT INDUCE VOMITING" SKIN AND EYES - FLUSH WITH WATER  "DO NOT INDUCE VOMITING" SKIN AND EYES - FLUSH WITH WATER  "BO NOT INDUCE VOMITING" SKIN AND EYES - FLUSH WITH WATER  "BO NOT INDUCE VOMITING" SKIN AND EYES - FLUSH WITH WATER  "BO NOT INDUCE VOMITING" SKIN AND EYES - FLUSH WITH WATER  "BO NOT INDUCE VOMITING" SKIN AND EYES - FLUSH WITH WATER  "BO NOT INDUCE VOMITING WATER  "BO NOT INDUCE VOMITING WATER  "B	
SECTION 6 - HEALTH HAZARDS  1 Acute STRONG IRRITANT - SLIGHTLY TOXIC SUBJECTION 6 - HEALTH HAZARDS  2 Chrome SUBJECTION 6 - HEALTH HAZARDS  2 Chrome SUBJECTION 7 - SPECIAL PROFICE TO EYES AND SKIN, MIST PRODUCES IRRITATION TO EYES, NOSE, Moderal Subjection  RESPIRATORY FUNCTION.  Chemical Lutted to Currences Program Program Program No. X	Hazardous May Occur Conditions Polymerization Will Not Occur Conditions AVOID CONTACT WITH STRONG ALKALIES. (WILL PRODUCE
I Antics STRONG IRRITANT - SLIGHTLY TOXIC SILGHTLY TOXIC - SLIGHTLY TOXIC - CAUSES BURNS TO EXPOSED TISSUE Symptomic of Exposure LIQUID IS CORROSIVE TO EYES AND SKIN, MIST PRODUCES IRRITATION TO EYES, NOSE, THROAT, AND LUNGS.  Medical Complitions Generally EMPHYSEMA, ASTHMA OR OTHER CONDITIONS RESULTING IN DECREASED  RESPIRATORY FUNCTION.  Chemical Little is Carcanagen Pregram Pr	VIOLENT ACID/BASE NEUTRALIZATION REACTION)
STRONG IRRITANT - SLIGHTLY TOXIC SLIGHTLY TOXIC - CAUSES BURNS TO EXPOSED TISSUE Symptoms of Exposure LIQUID IS CORROSIVE TO EYES AND SKIN, MIST PRODUCES IRRITATION TO EYES, NOSE, THROAT, AND LUNGS.  Medical Conditiona Generally EMPHYSEMA, ASTHMA OR OTHER CONDITIONS RESULTING IN DECREASED  Medical Conditiona Generally EMPHYSEMA, ASTHMA OR OTHER CONDITIONS RESULTING IN DECREASED  RESPIRATORY FUNCTION.  Chemical Lette as Carunogen Program Solve Was No. X Mosoprable No. X Mosoprable No. X Mosoprable No. X Mosoprable No. X No.	SECTION 6 - HEALTH HAZARDS
Symptoms of Exposure  LIQUID IS CORROSIVE TO EYES AND SKIN, MIST PRODUCES IRRITATION TO EYES, NOSE, THROAT, AND LUNGS.  Medical Conditions Generally  RESPIRATORY FUNCTION.  Chemical Larted as Carunogen  National Toucology  No. X. Mosephals No. X. OSHA Yes Concentration of Potential Carcinogen  Program  National Toucology  No. X. Mosephals No. X. OSHA Yes Construction  CALL A PHYSICIAN IMMEDIATELY, INGESTION - GIVE LARGE QUANTITIES OF WATER  "DO NOT INDUCE VOMITING"  SKIN AND EYES - FLUSH WITH WATER  "DO NOT INDUCE VOMITING"  SKIN AND EYES - FLUSH WITH WATER  "DO NOT INDUCE VOMITING"  SKIN AND EYES - FLUSH WITH WATER  "Entry  "Exposure  YES  YES  3 Skin YES  1 Ingestion  PRIMARY HAZARD  SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES  PRESENTING TO LIQUID CONTACT MAY BE EXPECTED.  Other Precentions  AIRBORNE MIST - USE NIOSH/MSHA ACID GAS RESPIRATOR WITH FULL FACE PIECE.  KEEP STORED IN SUITABLE CONTAINER.  SUPA to be Taken in Case  WEAR SUITABLE PROTECTIVE CLOTHING. EYE PROTECTION, AND RESPIRATOR.  NEUTRALIZE WITH SODA ASH AND FLUSH THE AREA WITH LARGE AMOUNTS OF WATER.  NEUTRALIZE WITH SODA ASH AND FLUSH THE AREA WITH LARGE AMOUNTS OF WATER.  Water Dayonal  Methods (Casulati Ederal, state, and local regulations)  NEUTRALIZE WITH SODA ASH AND FLUSH THE AREA WITH LARGE AMOUNTS OF WATER.  NEUTRALIZE WITH SODA ASH AND FLUSH THE AREA WITH LARGE AMOUNTS OF WATER.  NEUTRALIZE WITH SODA ASH AND FLUSH THE AREA WITH LARGE AMOUNTS OF WATER.  NEUTRALIZE WITH SODA ASH AND FLUSH THE AREA WITH LARGE AMOUNTS OF WATER.  NEUTRALIZE WITH SODA ASH AND FLUSH THE AREA WITH LARGE AMOUNTS OF WATER.  NEUTRALIZE WITH SODA ASH AND FLUSH THE AREA WITH LARGE AMOUNTS OF WATER.  NEUTRALIZE WITH SODA ASH AND FLUSH THE AREA WITH LARGE AMOUNTS OF WATER.  NEUTRALIZE WITH SODA ASH AND FLUSH THE AREA WITH LARGE AMOUNTS OF WATER.  NEUTRALIZE WITH SODA ASH AND FLUSH THE AREA WITH LARGE AMOUNTS OF WATER.  NEUTRALIZE WITH SODA ASH AND FLUSH THE AREA WITH LARGE AMOUNTS OF WATER.  NEUTRALIZE WITH SODA ASH AND FLUSH THE AREA WITH LARGE AMOUNTS	CYTOTER A COLOR DATE OF THE PARTY OF THE PAR
Medical Conditions Generally   EMPHYSEMA, ASTHMA OR OTHER CONDITIONS RESULTING IN DECREASED	Signs and Symptoms of Exposure LIQUID IS CORROSIVE TO EYES AND SKIN, MIST PRODUCES IRRITATION TO EYES, NOSE,
RESPIRATORY FUNCTION.  Chemical Larged as Gracinogen Program National Toxicology No. X  IARC Mooopraphs No. X  OSHA Yes Q Program Prog	THROAT, AND LUNGS.
Chemical Lusted as Cartonogen Programs	Medical Conditions Generally Aggravated by Exposure  EMPHYSEMA, ASTHMA OR OTHER CONDITIONS RESULTING IN DECREASED
or Petestal Carcinogen  Program  No X Mesographs No X No SX  Mesographs No X Mesographs No X No SX  Mesographs No X Mesographs No X No SX  CALL A PHYSICIAN IMMEDIATELY, INGESTION - GIVE LARGE QUANTITIES OF WATER  "DO NOT INDUCE VOMITING"  SKIN AND EYES - FLUSH WITH WATER  "Inhabition YES  SISTED YES  SISTED YES  SISTED YES  SISTED YES  SISTED YES  SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES  PRESENTANY  PRIMARY HAZARD  SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES  PRESENTANG OR LIQUID CONTACT MAY BE EXPECTED.  Other SPILASHING OR LIQUID CONTACT MAY BE EXPECTED.  Other Presentions  AIRBORNE MIST - USE NIOSH/MSHA ACID GAS RESPIRATOR WITH FULL FACE PIECE.  KEEP STORED IN SUITABLE CONTAINER.  Sueps to be Taken in Case  Metarnal is Released or Spilled  WEAR SUITABLE PROTECTIVE CLOTHING. EYE PROTECTION, AND RESPIRATOR.  NEUTRALIZE WITH SODA ASH AND FLUSH THE AREA WITH LARGE AMOUNTS OF WATER.  Waste Disposal Methods (Censult federal, state, and local regulations)  NEUTRALIZE WITH SODA ASH OR LIME AND DISCHARGE INTO A  TREATMENT SYSTEM IN ACCORDANCE WITH LOCAL REGULATIONS.  SECTION 8 — SPECIAL PROTECTION INFORMATION/CONTROL MEASURES  Respiratory Protection  Special ADEQUATE TO Mechanical (General)  NIOSH/MSHA ACID GAS WITH FULL FACE PIECE.  Vectolation  Local ADEQUATE TO Mechanical (General)  N/A N/A  Protective  Oliver Protective  ACID RESISTANT  Protective  Oliver Protection  School ACID RESISTANT  RUBBER APRON AND BOOTS AS NECCESSARY.  Nort/Hygapur Practices  STORE AND HANDLE AS STRONG ACID. WASH BEFORE EATING OR DRINKING.	
"DO NOT INDUCE VOMITING"  SKIN AND EYES - FLUSH WITH WATER  1 Inhalation  YES  2 Eyes  YES  3 Skin  YES  4 Ingestion  PRIMARY HAZARD  SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES  Precautions to be Taken in Handling and Storage  USE GOGGLES AND/OR FACE SHIELDS, RUBBER APRONS, GLOVES AND BOOTS WHERE  SPLASHING OR LIQUID CONTACT MAY BE EXPECTED.  Other Precautions  AIRBORNE MIST - USE NIOSH/MSHA ACID GAS RESPIRATOR WITH FULL FACE PIECE.  KEEP STORED IN SUITABLE CONTAINER.  Sleeps to be Taken in Case  KEEP STORED IN SUITABLE PROTECTIVE CLOTHING. EYE PROTECTION, AND RESPIRATOR.  NEUTRALIZE WITH SODA ASH AND FLUSH THE AREA WITH LARGE AMOUNTS OF WATER.  Wasta Dasposal  Methods (Consult federal, state, and local regulations)  NEUTRALIZE WITH SODA ASH OR LIME AND DISCHARGE INTO A  TREATMENT SYSTEM IN ACCORDANCE WITH LOCAL REGULATIONS.  SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES  Respiratory Protection Specif Type)  NIOSH/MSHA ACID GAS WITH FULL FACE PIECE.  Vestilation  Local ADEQUATE TO Mechanical (General) N/A  N/A  N/A  Polacative Gloves ACID RESISTANT  Protective Schauser  RUBBER APRON AND BOOTS AS NECCESSARY.  Work-Hyperic Practices  STORE AND HANDLE AS STRONG ACID. WASH BEFORE EATING OR DRINKING.	or Potential Carcinogen Program No X Monographs No X No X
ROUTES OF ENTRY    1 Inhalation   YES	Emergency and First Aid Procedures CALL A PHYSICIAN IMMEDIATELY, INGESTION - GIVE LARGE QUANTITIES OF WATER
ROUTES OF OF ENTRY    2 Eyes   YES     3 Skin   YES     4 Ingestion   PRIMARY HAZARD     5 SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES     6 Precautions to be Taken in Handling and Storage   USE GOGGLES AND/OR FACE SHIELDS, RUBBER APRONS, GLOVES AND BOOTS WHERE     7 SPLASHING OR LIQUID CONTACT MAY BE EXPECTED.     7 Other   Precautions   AIRBORNE MIST - USE NIOSH/MSHA ACID GAS RESPIRATOR WITH FULL FACE PIECE.     8 KEEP STORED IN SUITABLE CONTAINER.     8 Steps to be Taken in Case   Wear SUITABLE PROTECTIVE CLOTHING. EYE PROTECTION, AND RESPIRATOR.     8 WEAR SUITABLE PROTECTIVE CLOTHING. EYE PROTECTION, AND RESPIRATOR.     9 WEAR SUITABLE PROTECTIVE WITH SODA ASH OR LIME AND DISCHARGE INTO A     10 TREATMENT SYSTEM IN ACCORDANCE WITH LOCAL REGULATIONS.     11 SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES     12 Separatory Protection   NIOSH/MSHA ACID GAS WITH FULL FACE PIECE.     13 Section   Security Control of the Contro	DO NOT MIDDEL COLLEGE
SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES  Presautions to be Taken in Handling and Storage USE GOGGLES AND/OR FACE SHIELDS, RUBBER APRONS, GLOVES AND BOOTS WHERE SPLASHING OR LIQUID CONTACT MAY BE EXPECTED.  Other Presautions AIRBORNE MIST - USE NIOSH/MSHA ACID GAS RESPIRATOR WITH FULL FACE PIECE.  KEEP STORED IN SUITABLE CONTAINER.  Suppa to be Taken in Case Material is Released or Spilled WEAR SUITABLE PROTECTIVE CLOTHING. EYE PROTECTION, AND RESPIRATOR.  NEUTRALIZE WITH SODA ASH AND FLUSH THE AREA WITH LARGE AMOUNTS OF WATER.  Waste Disposal Methods (Consult federal, state, and local regulations) NEUTRALIZE WITH SODA ASH OR LIME AND DISCHARGE INTO A TREATMENT SYSTEM IN ACCORDANCE WITH LOCAL REGULATIONS.  SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES  Respiratory Protection Specify Type!  Ventilation Local ADEQUATE TO Mechanical Company N/A N/A N/A N/A Protective (General) N/A	YES
PRIMARY HAZARD  SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES  Precautions to be Taken in Handling and Storage USE GOGGLES AND/OR FACE SHIELDS, RUBBER APRONS, GLOVES AND BOOTS WHERE SPLASHING OR LIQUID CONTACT MAY BE EXPECTED.  Other Precautions AIRBORNE MIST - USE NIOSH/MSHA ACID GAS RESPIRATOR WITH FULL FACE PIECE.  KEEP STORED IN SUITABLE CONTAINER.  Steps to be Taken in Case Material is Released or Spilled WEAR SUITABLE PROTECTIVE CLOTHING. EYE PROTECTION, AND RESPIRATOR.  NEUTRALIZE WITH SODA ASH AND FLUSH THE AREA WITH LARGE AMOUNTS OF WATER.  Waste Disposed Methods (Consult federal, state, and local regulations) NEUTRALIZE WITH SODA ASH OR LIME AND DISCHARGE INTO A  TREATMENT SYSTEM IN ACCORDANCE WITH LOCAL REGULATIONS.  SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES  Respuratory Protection NIOSH/MSHA ACID GAS WITH FULL FACE PIECE.  Vocaldation Local ADEQUATE TO Mechanical (General) N/A N/A N/A N/A  Protective ACID RESISTANT Eye Collection CHEMICAL GOGGLES  Other Protective Rubber APRON AND BOOTS AS NECCESSARY.  Work/Hygenic Practices STORE AND HANDLE AS STRONG ACID. WASH BEFORE EATING OR DRINKING.	OF YES
SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES  Presautions to be Taken in Handling and Storage USE GOGGLES AND/OR FACE SHIELDS, RUBBER APRONS, GLOVES AND BOOTS WHERE SPLASHING OR LIQUID CONTACT MAY BE EXPECTED.  Other Precautions AIRBORNE MIST - USE NIOSH/MSHA ACID GAS RESPIRATOR WITH FULL FACE PIECE.  KEEP STORED IN SUITABLE CONTAINER.  Steps to be Taken in Case Material is Released or Spilled WEAR SUITABLE PROTECTIVE CLOTHING. EYE PROTECTION, AND RESPIRATOR.  NEUTRALIZE WITH SODA ASH AND FLUSH THE AREA WITH LARGE AMOUNTS OF WATER.  Waste Disposal Methods (Consult Gederal, state, and local regulations) NEUTRALIZE WITH SODA ASH OR LIME AND DISCHARGE INTO A  TREATMENT SYSTEM IN ACCORDANCE WITH LOCAL REGULATIONS.  SECTION 8 — SPECIAL PROTECTION INFORMATION/CONTROL MEASURES  Respiratory Protection NIOSH/MSHA ACID GAS WITH FULL FACE PIECE.  Ventulation Local ADEQUATE TO Mechanical N/A Special Other Protective General N/A N/A N/A  Protective ACID RESISTANT Frotection CHEMICAL GOGGLES  Other Protective RUBBER APRON AND BOOTS AS NECCESSARY.  Work/Hygeque Practices STORE AND HANDLE AS STRONG ACID. WASH BEFORE EATING OR DRINKING.	165
Precautions to be Taken in Handling and Storage  USE GOGGLES AND/OR FACE SHIELDS, RUBBER APRONS, GLOVES AND BOOTS WHERE  SPLASHING OR LIQUID CONTACT MAY BE EXPECTED.  Other Precautions  AIRBORNE MIST - USE NIOSH/MSHA ACID GAS RESPIRATOR WITH FULL FACE PIECE.  KEEP STORED IN SUITABLE CONTAINER.  Steps to be Taken in Case Material is Released or Spilled  WEAR SUITABLE PROTECTIVE CLOTHING. EYE PROTECTION, AND RESPIRATOR.  NEUTRALIZE WITH SODA ASH AND FLUSH THE AREA WITH LARGE AMOUNTS OF WATER.  Waste Disposal Methods (Consult federal, state, and local regulations)  NEUTRALIZE WITH SODA ASH OR LIME AND DISCHARGE INTO A  TREATMENT SYSTEM IN ACCORDANCE WITH LOCAL REGULATIONS.  SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES  Respiratory Protection  (Specify Type)  NIOSH/MSHA ACID GAS WITH FULL FACE PIECE.  Ventilation  Local ADEQUATE TO Mechanical (General) N/A N/A N/A N/A  Protective ACID RESISTANT  Protective Indianal Chemical Chemical Chemical Chemical Chemical Googgles  Other Protective Color of Equipment  RUBBER APRON AND BOOTS AS NECCESSARY.  Work-Hygrene Practices  STORE AND HANDLE AS STRONG ACID. WASH BEFORE EATING OR DRINKING.	PRIMARY HAZARD
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Respiratory Protection Specify Type:  NIOSH/MSHA ACID GAS WITH FULL FACE PIECE.  Ventilation Local ADEQUATE TO Mechanical Special Other Exhaust MEET PEL, N/A N/A N/A  Protective Gloves ACID RESISTANT Eye Protection CHEMICAL GOGGLES  Other Protective Clothing or Equipment RUBBER APRON AND BOOTS AS NECCESSARY.  Work/Hygienic Practices STORE AND HANDLE AS STRONG ACID. WASH BEFORE EATING OR DRINKING.	TREATMENT SYSTEM IN ACCORDANCE WITH LOCAL REGULATIONS.
Ventulation   Local Exhaust   ADEQUATE TO   Mechanical (General)   N/A   N/A   N/A   N/A	SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES
Protective Gloves ACID RESISTANT Eye Protection CHEMICAL GOGGLES  Other Protective Clothing or Equipment RUBBER APRON AND BOOTS AS NECCESSARY.  Work/Hygienic Practices STORE AND HANDLE AS STRONG ACID. WASH BEFORE EATING OR DRINKING.	Respiratory Protection (Specify Type)  NIOSH/MSHA ACID GAS WITH FULL FACE PIECE.
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Other Protective Clothing or Equipment RUBBER APRON AND BOOTS AS NECCESSARY.  Work/Hygienic Practices STORE AND HANDLE AS STRONG ACID. WASH BEFORE EATING OR DRINKING.	Protective Eye
STORE AND HANDLE AS STRONG ACID. WASH BEFORE EATING OR DRINKING.	Other Protective DYDDED ADONE AND DOOTS AS NECCESCARY
	Work/Hygrenic Practices STORE AND HANDLE AS STRONG ACID. WASH BEFORE EATING OR DRINKING.
MPORTANT	IMPORTANT

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### **MATERIAL SAFETY DATA SHEET (MSDS)**

This MSDS should be attached or kept w	ith the respective product with which it is associated.
SAPETY DATA SHEET - A2097	 
2 Data II Dalik Salah - A2077	CARCINOGENICITY:
Associated Grainger Items	
10259, 10259	OSEA: YES  LARC: YES
	NTP: YES
MATERIAL SAFETY DATA SHEET	
	CHRONIC OVEREXPOSURE: REPRATED OVEREXPOSURE HAVE CAUSED LIVER EFFECTS.
SECTION 1: PRODUCT E COMPANY IDENTIFICATION	MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
PRODUCT MARE QUICE CLEAN (TM)	SYMPTOMS DEPEND ON LEVEL AND DURATION OF EXPOSURE.
PRODUCT NUMBER(S): 03182, 03184	SECTION 4: PIRST AID MEASURES
MANUFACTURED BY:	INHALATION: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NECESSARY.
CRC INDUSTRIES, INC.	
885 LOUIS DRIVE	EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES.
WARMINSTER, PA 18974	
(215) 674-4300	SKIN: REMOVE CONTAMINATED CLOTHING AND WASH AREA WITE SOAP AND WATER.
24-HOUR EMERGENCY INFORMATION: CEMPAREC: (600). 124-5300	INGESTION: CALL A PHYSICIAN. DO NOT INDUCE VOMITING.
	SECTION 5: PIRE-PIGHTING MEASURES
- -	FLASHPOINT: NONE
CAS NUMBER ACGIE TLV OSHA PEL OTHER &	   METHOD: TCC, TOC, COC
TETRACHLOROETHYLENE 127-18-4 25 PPM 25 PPM NE 100	LEL: ND
TETRACELOROSTHYLENE 127-18-4 25 PPM 25 PPM NE 100	LEL: ND UEL: ND
TETRACHLOROETHYLENE 127-18-4 25 PPM 25 PPM NE 100	
	UEL: ND
SECTION 3: HAZARDS IDENTIFICATION EMERGENCY OVERVIEW:	UEL: ND  EXTINGUISHING MEDIA: WATER FOG  HAZARDOUS COMBUSTION PRODUCTS: HYDROGEN CHLORIDE, SOME PHOSGENE.
SECTION 3: HAZARDS IDENTIFICATION EMERGENCY OVERVIEW:  APPEARANCE & ODOR:	EXTINGUISHING MEDIA: WATER FOG  HAZARDOUS COMBUSTION PRODUCTS: HYDROGEN CHLORIDE, SOME PHOSGENE.  FIRE-FIGHTING INSTRUCTIONS:
SECTION 3: HAZARDS IDENTIFICATION EMERGENCY OVERVIEW:	UEL: ND  EXTINGUISHING MEDIA: WATER FOG  HAZARDOUS COMBUSTION PRODUCTS: HYDROGEN CHLORIDE, SOME PHOSGENE.
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EMERGENCY OVERVIEW:  APPEARANCE & ODOR:  COLORLESS LIQUID, IRRITATING ODOR AT HIGH CONCENTRATIONS.	EXTINGUISHING MEDIA: WATER FOG  HAZARDOUS COMBUSTION PRODUCTS: HYDROGEN CHLORIDE, SOME PHOSGENE.  FIRE-FIGHTING INSTRUCTIONS:  REMOVE CONTAINERS FROM FIRE AREA IF POSSIBLE. USE SELF-CONTAINED BREATHING
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EMERGENCY OVERVIEW:  APPEARANCE & ODOR:  COLORLESS LIQUID, IRRITATING ODOR AT HIGH CONCENTRATIONS.  DANGER: VAPOR HARMFUL.	EXTINGUISHING MEDIA: WATER FOG  HAZARDOUS COMBUSTION PRODUCTS: HYDROGEN CHLORIDE, SOME PHOSGENE.  FIRE-FIGETING INSTRUCTIONS:  REMOVE CONTAINERS FROM FIRE AREA IF POSSIBLE. USE SELF-CONTAINED BREATHING  APPARATUS FOR FIRE FIGETING.
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EMERGENCY OVERVIEW:  APPEARANCE & ODOR: COLORLESS LIQUID, IRRITATING ODOR AT HIGH CONCENTRATIONS.  DANGER: VAPOR HARMFUL.	EXTINGUISHING MEDIA: WATER FOG  HAZARDOUS COMBUSTION PRODUCTS: HYDROGEN CHLORIDE, SOME PHOSGENE.  FIRE-FIGETING INSTRUCTIONS:  REMOVE CONTAINERS FROM FIRE AREA IF POSSIBLE. USE SELF-CONTAINED BREATHING  APPARATUS FOR FIRE FIGHTING.  NFFA:  HEALTE 2  FLAMMABILITY 0
EMERGENCY OVERVIEW:  APPEARANCE & ODOR: COLORLESS LIQUID, IRRITATING ODOR AT HIGH CONCENTRATIONS.  DANGER: VAPOR HARMFUL.  POTENTIAL HEALTH EFFECTS: INHALATION:	EXTINGUISHING MEDIA: WATER FOG  HAZARDOUS COMBUSTION PRODUCTS: HYDROGEN CHLORIDE, SOME PHOSGENE.  FIRE-FIGETING INSTRUCTIONS:  REMOVE CONTAINERS FROM FIRE AREA IF POSSIBLE. USE SELF-CONTAINED BREATHING  APPARATUS FOR FIRE FIGHTING.  NFFA:  HEALTE 2  FLAMMABILITY 0
EMERGENCY OVERVIEW:  APPEARANCE & ODOR: COLORLESS LIQUID, IRRITATING ODOR AT HIGH CONCENTRATIONS.  DANGER: VAPOR HARMFUL.  POTENTIAL HEALTH EFFECTS: INHALATION: HEADACHES, DIZZINESS, DRUNKENNESS, IRREGULAR HEARTBEATS, UNCONSCIOUSNESS,	EXTINGUISHING MEDIA: WATER FOG  HAZARDOUS COMBUSTION PRODUCTS: HYDROGEN CHLORIDE, SOME PHOSGENE.  FIRE-FIGHTING INSTRUCTIONS: REMOVE CONTAINERS FROM FIRE AREA IF POSSIBLE. USE SELF-CONTAINED BREATHING APPARATUS FOR FIRE FIGHTING.  NPFA: HEALTE 2 FLAMMABILITY 0 REACTIVITY 0
EMERGENCY OVERVIEW:  APPEARANCE & ODOR: COLORLESS LIQUID, IRRITATING ODOR AT HIGH CONCENTRATIONS.  DANGER: VAPOR HARMFUL.  POTENTIAL HEALTH EFFECTS: INHALATION: HEADACHES, DIZZINESS, DRUNKENNESS, IRREGULAR HEARTBEATS, UNCONSCIOUSNESS,	EXTINGUISHING MEDIA: WATER FOG  HAZARDOUS COMBUSTION PRODUCTS: HYDROGEN CHLORIDE, SOME PHOSGENE.  FIRE-FIGHTING INSTRUCTIONS:  REMOVE CONTAINERS FROM FIRE AREA IF POSSIBLE. USE SELF-CONTAINED BREATHING  APPARATUS FOR FIRE FIGHTING.  NYPA:  HEALTE 2  PLANMABILITY 0  REACTIVITY 0
EMERGENCY OVERVIEW:  APPEARANCE & ODOR: COLORLESS LIQUID, IRRITATING ODOR AT HIGH CONCENTRATIONS.  DANGER: VAPOR HARMFUL.  POTENTIAL HEALTH EFFECTS:  INHALATION: HEADACHES, DIZZINESS, DRUNKENNESS, IRREGULAR HEARTBEATS, UNCONSCIOUSNESS, IRRITATION TO UPPER RESPIRATORY TRACT AND CENTRAL NERVOUS SYSTEM EFFECTS.	EXTINGUISHING MEDIA: WATER FOG  HAZARDOUS COMBUSTION PRODUCTS: HYDROGEN CHLORIDE, SOME PHOSGENE.  PIRE-FIGHTING INSTRUCTIONS:  REMOVE CONTAINERS FROM FIRE AREA IF POSSIBLE. USE SELF-CONTAINED BREATHING APPARATUS FOR PIRE PIGHTING.  NYPA:  HEALTE 2  PLANMABILITY 0  REACTIVITY 0  EMIS:  HEALTE 2
EMERGENCY OVERVIEW:  APPEARANCE & ODOR: COLORLESS LIQUID, IRRITATING ODOR AT HIGH CONCENTRATIONS.  DANGER: VAPOR HARMFUL.  POTENTIAL HEALTH EFFECTS:  INHALATION: HEADACHES, DIZZINESS, DRUNKENNESS, IRREGULAR HEARTBEATS, UNCONSCIOUSNESS, IRRITATION TO UPPER RESPIRATORY TRACT AND CENTRAL NERVOUS SYSTEM EFFECTS.	EXTINGUISHING MEDIA: WATER FOG  HAZARDOUS COMBUSTION PRODUCTS: HYDROGEN CHLORIDE, SOME PHOSGENE.  FIRE-FIGHTING INSTRUCTIONS:  REMOVE CONTAINERS FROM FIRE AREA IF POSSIBLE. USE SELF-CONTAINED BREATHING APPARATUS FOR FIRE FIGHTING.  NAPPA:  HEALTE 2  FLAMMABILITY 0  EMIS:  HEALTE 2  FLAMMABILITY 0
EMERGENCY OVERVIEW:  APPEARANCE & ODOR: COLORLESS LIQUID, IRRITATING ODOR AT HIGH CONCENTRATIONS.  DANGER: VAPOR HARMFUL.  POTENTIAL HEALTH EFFECTS: INHALATION: HEADACHES, DIZZINESS, DRUNKENNESS, IRREGULAR HEARTBEATS, UNCONSCIOUSNESS, IRRITATION TO UPPER RESPIRATORY TRACT AND CENTRAL NERVOUS SYSTEM EFFECTS.  EYES: IRRITATION	EXTINGUISHING MEDIA: WATER FOG  HAZARDOUS COMBUSTION PRODUCTS: HYDROGEN CHLORIDE, SOME PHOSGENE.  FIRE-FIGHTING INSTRUCTIONS:  REMOVE CONTAINERS FROM FIRE AREA IF POSSIBLE. USE SELF-CONTAINED BREATHING  APPARATUS FOR FIRE FIGHTING.  NPPA:  HEALTH 2  FLANMABILITY 0  REACTIVITY 0  REACTIVITY 0  REACTIVITY 0
EMERGENCY OVERVIEW:  APPEARANCE & ODOR: COLORLESS LIQUID, IRRITATING ODOR AT HIGH CONCENTRATIONS.  DANGER: VAPOR HARMFUL.  POTENTIAL HEALTH EFFECTS: INHALATION: HEADACHES, DIZZINESS, DRUNKENNESS, IRREGULAR HEARTBEATS, UNCONSCIOUSNESS, IRRITATION TO UPPER RESPIRATORY TRACT AND CENTRAL NERVOUS SYSTEM EFFECTS.  EYES: IRRITATION	EXTINGUISHING MEDIA: WATER FOG  HAZARDOUS COMBUSTION PRODUCTS: HYDROGEN CHLORIDE, SOME PHOSGENE.  FIRE-FIGHTING INSTRUCTIONS:  REMOVE CONTAINERS FROM FIRE AREA IF POSSIBLE. USE SELF-CONTAINED BREATHING  APPARATUS FOR FIRE FIGHTING.  NPPA:  HEALTH 2  FLANMABILITY 0  REACTIVITY 0  REACTIVITY 0  REACTIVITY 0
EMERGENCY OVERVIEW:  APPEARANCE & ODOR: COLORLESS LIQUID, IRRITATING ODOR AT HIGH CONCENTRATIONS.  DANGER: VAPOR HARMFUL.  POTENTIAL HEALTH EFFECTS: INHALATION: HEADACHES, DIZZINESS, DRUNKENNESS, IRREGULAR HEARTBEATS, UNCONSCIOUSNESS, IRRITATION TO UPPER RESPIRATORY TRACT AND CENTRAL NERVOUS SYSTEM EFFECTS.  EYES: IRRITATION  SKIN: IRRITATION	EXTINGUISHING MEDIA: WATER FOG  HAZARDOUS COMBUSTION PRODUCTS: HYDROGEN CHLORIDE, SOME PHOSGENE.  FIRE-FIGHTING INSTRUCTIONS:  REMOVE CONTAINERS FROM FIRE AREA IF POSSIBLE. USE SELF-CONTAINED BREATHING  APPARATUS FOR FIRE FIGHTING.  NPPA:  HEALTH 2  FLANMABILITY 0  REACTIVITY 0  REACTIVITY 0  REACTIVITY 0
EMERGENCY OVERVIEW:  APPEARANCE & ODOR: COLORLESS LIQUID, IRRITATING ODOR AT HIGH CONCENTRATIONS.  DANGER: VAPOR HARMFUL.  POTENTIAL HEALTH EFFECTS: INHALATION: HEADACHES, DIZZINESS, DRUNKENNESS, IRREGULAR HEARTBEATS, UNCONSCIOUSNESS, IRRITATION TO UPPER RESPIRATORY TRACT AND CENTRAL NERVOUS SYSTEM EFFECTS.  EYES: IRRITATION  SKIN: IRRITATION	EXTINGUISHING MEDIA: WATER FOG  HAZARDOUS COMBUSTION PRODUCTS: HYDROGEN CHLORIDE, SOME PROSGENE.  FIRE-FIGHTING INSTRUCTIONS:  REMOVE CONTAINERS FROM FIRE AREA IF FOSSIBLE. USE SELF-CONTAINED BREATHING APPARATUS FOR FIRE FIGHTING.  MPPA:  HEALTE 2  FLANMABILITY 0  REACTIVITY 0  FRACTIVITY 0  PPE B
EMERGENCY OVERVIEW:  APPEARANCE & ODOR: COLORLESS LIQUID, IRRITATING ODOR AT HIGH CONCENTRATIONS.  DANGER: VAPOR HARMFUL.  POTENTIAL HEALTH EFFECTS: INHALATION: HEADACHES, DIZZINESS, DRUNKENNESS, IRREGULAR HEARTBEATS, UNCONSCIOUSNESS, IRRITATION TO UPPER RESPIRATORY TRACT AND CENTRAL NERVOUS SYSTEM EFFECTS.  EYES: IRRITATION  SKIN: IRRITATION	EXTINGUISHING MEDIA: WATER FOG  HAZARDOUS COMBUSTION PRODUCTS: HYDROGEN CHLORIDE, SOME PHOSGENE.  FIRE-FIGHTING INSTRUCTIONS:  REMOVE CONTAINERS FROM FIRE AREA IF FOSSIBLE. USE SELF-CONTAINED BREATHING  APPARATUS FOR FIRE FIGHTING.  MPPA:  HEALTH 2  FLANMABILITY 0  REACTIVITY 0  HEALTH 2  FLANMABILITY 0  REACTIVITY 0  PPE B

AREA SHOULD BE VENTILATED. ABSORBENT SHOULD BE USED TO PICK UP EXCESS
MATERIAL. ALL USED AND UNUSED PRODUCT SHOULD BE DISPOSED OF IN ACCORDANCE

WITH FEDERAL, STATE AND LOCAL REGULATIONS.



TCTION 7: HANDLING AND STORAGE -----

HANDLING PROCEDURES: STORE IN A COOL, DRY AREA.

-----SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION -----

ENGINEERING CONTROLS:

ADEQUATE TO PREVENT ACCUMULATION OF VAPORS. USE MECHANICAL MEANS IF
NECESSARY TO MAINTAIN LEVELS BELOW THE EXPOSURE LIMITS. IF WORKING IN A
CONFINED SPACE, FOLLOW APPLICABLE OSHA REGULATIONS.

RESPIRATORY:

USE NIOSH/MSHA COMPLIANT RESPIRATORS OR SELF-CONTAINED BREATHING APPARATUS ABOVE EXPOSURE LIMITS. FOLLOW OSHA REGULATIONS 29 CFR 1910.134.

PROTECTIVE CLOTHING/EQUIPMENT:

WEAR CHEMICALLY PROTECTIVE GLOVES AND SAFETY GLASSES. USE A SPLASH APRON AND BOOTS IF SPLASHING OCCURS.

----- SECTION 9: PHYSICAL & CHEMICAL PROPERTIES -----

PHYSICAL STATE: LIQUID

RRANCE & ODOR: COLORLESS LIQUID, SOLVENT ODOR

SPECIFIC GRAVITY: 1.619

BOILING POINT: 250 DEG. F (ESTIMATED)

FREEZING POINT: ND

VAPOR PRESSURE: 13 MMHg

EVAPORATION RATE: RAPID

VAPOR DENSITY (AIR = 1): >AIR

pH: NA

SOLUBILITY: SLIGHT IN WATER

VOLATILE ORGANIC COMPOUNDS:

**%:** 0

G/L: 0

LBS./GAL: 0

PLACARD: NA

AL PROVISIONS: NA

SHIPPING NAME: TETRACHLOROETHYLENE

HAZARD CLASS: 6.1 UN NUMBER: 1710 PACKING GROUP: III HAZARDOUS POLYMERIZATION: NO

CHEMICAL INCOMPATIBILITIES: STRONG OXIDIZERS

MATERIALS TO AVOID:

AVOID STORAGE IN ALUMINUM CONTAINERS OR CONTACT WITH ALUMINUM AND/OR ZINC

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

-----SECTION 11: TOXICOLOGICAL INFORMATION -----

LONG-TERM TOXICOLOGICAL STUDIES HAVE NOT BEEN CONDUCTED FOR THIS PRODUCT.

SEE SECTION 3 OF THIS MSDS FOR ACUTE SYMPTOMS OF OVEREXPOSURE AND

CARCINOGENICITY INFORMATION.

-----SECTION 12: ECOLOGICAL INFORMATION -----

ECOTOXICITY: NO DATA AVAILABLE.

ENVIRONMENTAL FATE: NO DATA AVAILABLE FOR BIODEGRADATION.

----- SECTION 13: DISPOSAL CONSIDERATIONS -----

DISPOSAL:

THIS MATERIAL IF DISCARDED MAY BE HAZARDOUS WASTE UNDER U.S. EPA RCRA
REGULATIONS. ALL DISPOSAL ACTIVITIES MUST COMPLY WITH PEDERAL, STATE AND
LOCAL REGULATIONS. CONTACT YOUR LOCAL OR STATE ENVIRONMENTAL AGENCY FOR
SPECIFIC RULES. DO NOT DUMP INTO SEWERS, ON THE GROUND OR INTO ANY BODY
OF WATER.

----- SECTION 14: TRANSPORTATION INPORMATION -----

PART NUMBER: 03182

SHIPPING NAME: CONSUMER COMMODITY

HAZARD CLASS: ORM-D

UN NUMBER: NA

PACKING GROUP: NA

LABEL: NA

PLACARD: NA

SPECIAL PROVISIONS: NA

PART NUMBER: 03183

SHIPPING NAME: TETRACHLOROETHYLENE

HAZARD CLASS: 6.1

UN NUMBER: 1897

PACKING GROUP: III

LABEL: NA

-----SECTION 16: ADDITIONAL INFORMATION -----

PREPARED BY: ADAM M. SELISKER

DATE: MARCH 21, 2002

TECHNICAL INFORMATION: (800) 521-3168

LABEL: NA

PLACARD: NA

SPECIAL PROVISIONS: RQ

-----SECTION 15: REGULATORY INFORMATION -----

TSCA: ALL COMPONENTS ARE RITHER LISTED UNDER TSCA OR ARE EXEMPT.

SARA TITLE III:

SECTION 311/312: CHRONIC

SECTION 313\*: TETRACHLOROETHYLENE

CERCLA/SUPERFUND (RQ): 100 LBS.

EXTREMELY HAZARDOUS SUBSTANCES: NO

CALIFORNIA PROP 65:

THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS AND OTHER REPRODUCTIVE HARM.

\*SEE SECTION 2 FOR PERCENTAGE

CRC#: 491G

THIS INFORMATION IS ACCURATE TO THE BEST OF CRC INDUSTRIES' KNOWLEDGE OR OBTAINED FROM SOURCES BELIEVED BY CRC TO BE ACCURATE. BEFORE USING ANY FRODUCT, READ ALL WARNINGS AND DIRECTIONS ON THE LABEL.

CAS: CHEMICAL ABSTRACT SERVICE

PPM: PARTS PER MILLION

TCC: TAG CLOSED CUP

LEL: LOWER EXPLOSIVE LIMIT

UEL: UPPER EXPLOSIVE LIMIT

PPE: PERSONAL PROTECTION EQUIPMENT

TOC: TAG OPEN CUP

NA: NOT APPLICABLE

ND: NOT DETERMINED

NE: NOT ESTABLISHED

G/L: GRAMS PER LITER

LBS./GAL: POUNDS PER GALLON

RQ: REPORTABLE QUANTITY

COC: CLEVELAND OPEN CUP

LUN: LUNG

#### **MATERIAL SAFETY DATA SHEET (MSDS)**

This MSDS should be attached or kept with the respective product with which it is associated.

IAL SAFETY DATA SHEET - A3210 Associated Grainger Items TALC 2 MG/M3 TWA 4KM56 RESPIRABLE DUST RESPIRABLE DUST 07/23/00 POLY (TETRAFLUOROETHYLENE) ABL (DUPONT) 5MG/M3 8HR LOCTITE CORPORATION ROCKY BILL, CONNECTICUT 06067 EMERGENCY PRONE: (860) 571-5100 TOTAL DUST EXPOSURE LIMITS (STEL): MATERIAL SAFETY DATA SHERT ACGIH (TLV) OSHA (PEL) INGREDIENTS THREAD SEALANT WITH TEPLON 500 PPM ISOPROPYL ALCOHOL 500 PPM 30561 ----1, CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ---------3. HAZARDS IDENTIFICATION -----ITEM NO.: 30561 TOXICITY: EYE IRRITANT, MODERATELY TOXIC BY INGESTION. PRODUCT TYPE: SEALANT PRIMARY POUTES OF ENTRY: INHALATION, INGESTION, CONTACT. IS A REGISTERED TRADEMARK OF R.I. DUPONT DE NEMOURS COMPANY INC SIGNS AND SYMPTOMS OF EXPOSURE: VAPORS CAUSE IRRITATION OF EYES, NOSE AND THROAT ABOVE TLV. HEADACHE, NAUSEA, DIZZINESS MAY OCCUR. ----2. COMPOSITION, INFORMATION ON INGREDIENTS -----EXISTING CONDITIONS AGGRAVATED BY EXPOSURE: INGREDIENTS CAS NO. SKIN, EYE, AND RESPIRATORY DISORDERS. ISOPROPYL ALCOHOL 67-63-0 LITERATURE REFERENCED 35-40 INGREDIENTS CARCINOGEN TARGET ORGAN AND OTHER TALC 14807-96-6 25-30 BEALTH EFFECTS VEGETABLE OIL 8001-79-4 20-25 ISOPROPYL ALCOHOL ALG BLO CNS IRR KID VINYL RESIN 63148-65-2 10-15 TALC TRR LUN SOM N/A POLY (TETRAPLICROPTHYLENG) 9002-84-0 VEGETABLE OIL TITANIUM DIGKIDE 13463-67-7 VINYL RESIN MO INGREDIENTS WHICH HAVE EXPOSURE LIMITS POLY (TETRAFLUOROETHYLENE) EXPOSURE LIMITS (TWA): TITANIUM DIOXIDE INGREDIENTS N/A: NOT APPLICABLE VI. ALCOHOL ALG: ALLERGEN BLO: BLOOD CNS: CENTRAL NERVOUS SYSTEM IRR: IRRITANT AVOID BYE CONTACT. AVOID PROLONGED SKIN CONTACT OR PROLONGED BREATHING KID: KIDNEY

-81-

NTO: NO TARGET ORGANS RES: RESPIRATORY -----8. EXPOSURE CONTROLS, PERSONAL PROTECTION -----SOM: EVIDENCE OF SOME CARCINOGENICITY EYES: SAFETY GLASSES OR GOGGLES. -----4. FIRST AID MEASURES -----SKIN: RUBBER OR PLASTIC GLOVES. INGESTION: VENTILATION: MUST BE ADEQUATE TO AVOID EXCEEDING TLV. DO NOT INDUCE VOMITING, KEEP INDIVIDUAL CALM, OBTAIN MEDICAL ATTENTION. RESPIRATORY: NOT AVAILABLE REMOVE TO FRESH AIR. IF SYMPTOMS PERSIST, OBTAIN MEDICAL ATTENTION. SEE SECTION 2 FOR EXPOSURE LIMITS. SKIN CONTACT: WASH WITH SOAP AND WATER. -----9. PHYSICAL AND CHEMICAL PROPERTIES -----EYE CONTACT: FLUSH AT LEAST 15 MINUTES WITH WATER. OBTAIN MEDICAL ATTENTION. APPEARANCE: WHITE PASTE -----5. FIRE FIGHTING MEASURES -----ODOR: ALCOHOLIC FLASH POINT: 74 DEG. F BOILING POINT: 180 DEG. F METHOD: TAG CLOSED CUP THE DORS NOT APPLY RECOMMENDED EXTINGUISHING AGENTS: CARBON DIOXIDE, FOAM, DRY CHEMICAL SOLUBILITY IN WATER: PARTIAL SPECIAL FIREFIGHTING PROCEDURES: NOT AVAILABLE SPECIFIC GRAVITY: 1.12 AT 77 DEG. F HAZARDOUS PRODUCTS FORMED BY FIRE OR THERMAL DECOMP: TOXIC FLUORIDES VOLATILE ORGANIC COMPOUND (EPA METHOD 24): 37.9% L FIRE OR EXPLOSION HAZARDS: NONE VAPOR PRESSURE: 33 MM AT 68 DEG. F EXPLOSIVE LIMITS: (% BY VOLITHE IN AIR) LOWER: 2.3% VAPOR DENSITY: 2.07 (% BY VOLUME IN AIR) UPPER: 12.7% EVAPORATION RATE (ETHER = 1): 7.7 -----6. ACCIDENTAL RELEASE MEASURES ----------10 STABILITY AND REACTIVITY STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK: REMOVE IGNITION SOURCES. MAINTAIN ADEQUATE VENTILATION, SOAK UP WITH AN STABILITY: STABLE ABSORBENT, STORE IN A CLOSED CONTAINER UNTIL DISPOSAL, CLEAN UP WITH HAZARDOUS POLYMERIZATION: WILL NOT OCCUR ISOPROPYL AT-COHOT. INCOMPATIBILITY: STRONG OXIDIZING AGENTS. CONDITIONS TO AVOID: NOT AVAILABLE ----7. HANDLING AND STORAGE -----HAZARDOUS DECOMPOSITION PRODUCTS (NON-THERMAL): NONE SAFE STORAGE: STORE AWAY FROM HEAT, SPARKS OR FLAME. (CONTACT LOCTITE CUSTOMER SERVICE 1-800-243-4874 FOR SHELF LIFE INFORMATION) -----11. TOXICOLOGICAL INFORMATION SEE SECTION 3. CLASS 3. PACKING GROUP III (MORE THAN 500 ML) UN OR ID NUMBER: -12. ECOLOGICAL INFORMATION -----ID 8000 (NOT MORE THAN 500 ML) UN 1866 (MORE THAN 500 ML) NO DATA AVAILABLE -----15. REGULATORY INFORMATION -----

-----13. DISPOSAL CONSIDERATIONS -----RECOMMENDED METHODS OF DISPOSAL: ERATE FOLLOWING EPA AND LOCAL REGULATIONS. EPA HAZARDOUS WASTE NUMBER: D001 - HAZARDOUS WASTE PER 40CFR 261.21 -----14, TRANSPORTATION INFORMATION -----DOT (49 CFR 172): DOMESTIC GROUND TRANSPORT: PROPER SHIPPING NAME: CONSUMER COMMODITY (NOT MORE THAN FIVE LITERS) RESIN SOLUTION (MORE THAN FIVE LITERS) HAZARD CLASS OR DIVISION: ORM-D (NOT MORE THAN FIVE LITERS) CLASS 3, PACKING GROUP III (MORE TRAN FIVE LITERS) IDENTIFICATION NUMBER: NONE (NOT MORE THAN FIVE LITERS) UN 1866 (MORE THAN FIVE LITERS) MARINE POLLUTANT: NONE

PROPER SHIPPING NAME:

CONSUMER COMMODITY (NOT MORE THAN 500 ML)

RESIN SOLUTION (MORE THAN 500 ML)

CLASS 9 (NOT MORE THAN 500 ML)

CLASS OR DIVISION:

-----16. OTHER INFORMATION -----ESTIMATED NPPA (R) CODE: HEALTH HAZARD FIRE HAZARD REACTIVITY HAZARD 0 SPECIFIC HAZARD DOES NOT APPLY ESTIMATED HMIS(R) CODE: HRALTH HAZARD FLANKABILITY HAZARD 3 REACTIVITY HAZARDS 0 PERSONAL PROTECTION SEE SECTION 8. NPPA IS A REGISTERED TRADEMARK OF THE NATIONAL FIRE PROTECTION ASSN. HMIS IS A REGISTERED TRADEMARK OF THE NATIONAL PAINT AND COATINGS ASSN. PREPARED BY: STEPHEN REPETTO TITLE: RESEARCE CHEMIST - SAFETY, HEALTH & REGULATORY AFFAIRS COMPANY: LOCTITE CORP. 1001 TR BR CR ROCKY HILL, CT 06067 (24HR.) PHONE: (860) 571-5100 REVISION DATE: JANUARY 27, 1999 REVISION: 0030

CA PROPOSITION 65: NO PROP65 CHEMICALS ARE KNOWN TO BE PRESENT.

## ITEM: 3DV27 - Sandpaper 240 Grit

MSDS: B0081

PICK REQ: 1033300054

**MATERIAL SAFETY DATA SHEET (MSDS)** 

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION iated Grainger Item: 3DV27 - Sandpaper 240 Grit 1YER8 1YEW1 1YEX3 PRODUCT NAME: ALUMINUM OXIDE COATED ABRASIVE 1YER6, 1YEV9, 1YEU3, 1YEV7, 1YEV4 1YEW6 1YEW3. 1YEW9. TRADE NAME: 1YEW2. 1YEW4. 1YEW5 1YEW7 1YEW8. 1YEX1 1YEX2. 1YEX4, 1YFC1, 1YFD3, 1YFB1, 1YFC3, 1YFD5, 1YFB9 1YFD2 1YFH7 1YFJ9 1YEX5 1YFB2 1YFB3 1YFR4 1YFB5 1YFB6 1YFB7 1YFB8. ADALOX OR ABRASIVE CAP CODES: HIXX, A1XX, A2XX, E2XX, F2XX, G2XX, H2XX, K2XX, Q1XX, Q2XX, R2XX, S2XX, T2XX, U2XX, W2 1YFC2 1YFC4 1YFD6 1YFCS 1YFD7 1YFC6 1YFH2 IYFC7, IYFH3, 1YFC8 1YFC9, 1YFH5, 1YFD1, 1YFH6, 1YFH8. 1YFH9 1YFJ1 1YFK3 1YFJ2 1YFK4 1YFJ3 1YFJ4 1YFJ5 1YFJ6 1YFJ7 1YFJ8 1YFK5 1PP77 1PR51 1YFL3, 1PP78, 1PR52, 1YFL4 1PP79 1PR53 1YFL5, 1PP80, 1PR54, 1YFL6, 1PP81, 1PR55, 1YFL7, 1PP82, 1PR56, 1YFL8 1PR46 1PR57 MANUFACTURER (4): SAINT-GOBAIN ABRASIVES, INC. ONE NEW BOND STREET WORCESTER, MA 01615-0008 1YFN4 1PR49 1PT46, 1PW40, 2D544, 2D555, 1PT48, 1PW41, 2D545, 1PT49 1PW42 2D546 1PR58 1PR59 1PR95 1PR96 1PT32 1PT43 1PT44 1PT45 1PISO, 2D534, 1PT51, 2D535, 2D548, 1PT52 2D536 2D549 1PT53 2D537 1PT54, 2D538, 2D551, 1PT55 2D539 1PT56, 2D542, 1PW39 2D543 2D554 (508) 795-5000 2D547 2D552 2D553 2D550 2D556 2D557 2D557 2D618 2D681 2D695 2D718 2D730 2D741 2D597, 2D626, 2D689, 2D558 2D559 2D560 2D593 2D594 20595 2D596 2D616 2D617 REVISION DATE: 1/03/2007 2D619, 2D682, 2D620, 2D683, 2D621, 2D684, 2D622 2D685 2D623 2D686 2D624 2D687 2D625, 2D688, 2D627, 2D690, 2D694 2D704, 2D727, 2D738, MSDS PRINT FORMAT: NUSA 2D696. 2D697 2D698 2D699 2D700 2D702 2D703 2D705 2D706 2D721 2D732 2D722 2D733 2D723 2D724 2D735 2D729 2D740 - SECTION 2. COMPOSITION/INFORMATION ON INCREDIENTS -2D742 2D743 2D744 2D745 2D746 2D747 2D748 2D797 2D798 2D799 2D800 3DU51, 3DU62, 3DU75, 3DU54, 3DU65, 3DU80, 3DU55 3DU67 3DU83 2D812 3DU61 3DU52, 3DU63, 20801 20802 20806 20807 20811 3DU53 3DU57 3DU69 3DU58 3DU70 3DU59 3DU71 3DU60 3DU72 PERCENT SUBSTANCE DESCRIPTION CAS# 3DU73 3DU76 3DU78 3DU91 3DV17 3DV31 3DU93, 3DV19, 3DV33, 3DU94 3DV20 3DV34 3DV45 15,000 - 25,000 1344-28-1 3DU84 3DU85 3DU86 3DU87 3DU88 300189 313190 300192 ALUMINUM OXIDE, NON-FIBROUS 3DU99 3DV24 3DV12 3DV26 3DV13 3DV14 3DV28 3DV15 3DV29 3DV16 3DV18 3DV32 3DV10 CLOTH OR PAPER BACKING 45.000 - 55.000 N/A 3DV36 3DV37 3DV38 3DV40 3DV35 3DV39 317//41 3DV42 300/43 307/44 3DV50 3DV61 3PY97 3DV52 3DV63 3RA17 3DV51 3DV62 3DV53 3DV64 3DV54 3DV65 3DV55 3DV67 3DV56 3DV68 3DV46 3DV48 3DV49 BINDER SYSTEM \*\* 10.000 - 30.000 N/A 3DV57 3PY89 3DV58 3PY91 3DV59 3PY93 3DV60 3PY95 3RA15 3RA19 3RA21 3RA23 3RB33 CALCIUM CARBONATE 10.000 - 20.000 1317-65-3 3RB44 3RB55 3RB76 3RB43 3RB54 3RB34 3RB35 3RB36 3RB37 3RB38 3RB39 3RR40 3RR41 3RR42 3RB47 3RB64 3RB86 3RB45 3RB62 3RB46 3RB48 3RB65 3RB49 3RB66 3RB50 3RB67 3RB51 3RB68 3RB52 3RB69 3RB53 3RB70 \*\* SUBSTANCE IS A COMPOUND AND/OR MIXTURE: 3RB71 3RB87 OTHER: NOT APPLICABLE 3RB78 3RB85 3RB88 3RB89 3RB90 3RB91 3RB92 3RB93 3RB94 3RB95 3RB97 3RR98 3RB99 3RE10 3RE11 3RE22 3RE12 3RE23 3RE14 3RE25 3RE15 3RE26 3RE16 3RE27 3RE17 3RE28 3RE18, 3RE29 3RE19 3RE30 3RE20 3RE31 - SECTION 3. HAZARDS IDENTIFICATION 3RE32 3RE33 3RE34 3RE35 3RE36 3RE37 3RE38 3RE43 3RE54 3RE67 3RE48 3RE60 3RE49 3RE61 3RF39 3RF40 3RF41 3RF42 3RE44 3RE45 3RE46 3RE47 3RE51 3RE64 3RE52 3RE65 3RE53 3RE66 3RE55 3RE68 3RE57 3RE50 INHALATION ACUTE EXPOSURE EFFECTS: DUST MAY BE SLIGHTLY IRRITATING TO EYES AND RESPIRATORY TRACT AT HIGH 3RE6 3RE69 3RE73 3RE71 3RE72 3RE74 3RE75 3RE76 3RE77 3RE78 3RE79 3RE80 3RE81 3RE82 3RER3 3RF84 CONCENTRATIONS. 3RE86, 3RE97, 3RU18, 3RE87, 3RE98, 3RE88 3RE99 3RE89 3RU10 3RE91 3RU12 3RE92 3RU13 3RE93, 3RU14, 3RE94 3RU15 3RE95 3RU16 3RE96 3RU17 3RE90 3RU11 INHALATION CHRONIC EXPOSURE EFFECTS: 3RU19 3RU20 3RU21 3RU22 3RU23 3RU24 3RU25 3RU26 3RU27 3RU28 3UM86 3UN12 3UM87 3UN13 3UM88 3UN14 3UN32 3UP53 3VL62 3VM10 3VM31 3VM49 3VM94 3VN09 3VW11 3RIJ88 3RY36 3RY37 3RY38 31M60 3TM62 3UM67 CHRONIC: MAY AFFECT BREATHING CAPACITY. 3UN09 3UN20 3UN38 3VL55 3VL79 3UN05 3UN16 3UN06 3UN17 3UN07 3UN18 3UN08 3UN19 3UN11 FOR PRODUCTS CONTAINING PHENOL/FORMALDEHYDE RESIN, DUST GENERATED FROM INTENDED USE MAY CONTAIN TRACE AMOUNTS OF PHENOL AND FORMALDEHYDE WHICH UNDER EXCESSIVE EXPOSURE MAY CAUSE SKIN SENSITIZATION AND AIRWAY 3UN24 3UN42 3UN21 3UN22 3UN40 3UN23 31IN34 3UN35 3UN36 311N37 3111739 3TIN41 3UP55, 3VL64, 3VML4, 3UP56, 3VL66, 3VM15, 3VI.56, 3VM02, 3VM22, 3VL58, 3VM04, 3VM28, 3VM22, 3VL59, 3VM06, 3VM29, 3VM48, 3VM93, 3VM08, 3VK61 3VL73 3VK79 3VL76 3VL63, 3VM33, 3VM50, 3VM50, 3VM95, 3VM03 3VM27 3VM1.9 3VM20 3VM35 3VM52 3VM97 3VM36 3VM53 3VM98 3VN12 3VM40 FOR PRODUCTS CONTAINING INORGANIC FLUORIDES: EXCESSIVE EXPOSURE TO INORGANIC FLUORIDES HAVE BEEN SHOWN TO INCREASE BONE DENSITY. 3VM38 31/M39 3VM41 3VM44 3VM46 3VM89 3VN03 3VN15 3VM91 3VN06 3VN17 3VM88 3VN01 3VM90 3VN05 3VM92 3VN07 3VN10 3VN11. 3VN13 3VN14 3VN16 3VP20 3VP23 3VW12, 3VW45, 3VX24, 3VW15 3VW49 3VX26 3VW16 3VW59 3VX27 3VW17 3VW60 3VX30 3VW22 3VW62 3VZ35 3WH66 3VW23, 3VW64, 3VZ73, 3VW27, 3VW76, 3WH53, 3VW29, 3VW81, 3VW42 3VX23 31W13 EYE CONTACT ACUTE EXPOSURE EFFECTS: DUST MAY IRRITATE EYES. 3VW48, 3VX25, SKIN CONTACT ACUTE EXPOSURE EFFECTS: SOME MAY EXPERIENCE SKIN IRRITATION FROM DUST. 3WH55, 3WH72, 3WH95, 3WJ18, 3WH54 3WH57 3WH69 3WH88 3WJ11 3WH71 3WH90 3WH58. 3WH59 3WH61 3WH64 3WH65 3WH67 3WH73 3WH76, 3WJ03, 3WH77 3WJ04 3WH78, 3WJ05, 3WH81 3WJ07 3WH83 3WH84 3WJ09 3WH85 3WJ01 3WJ19 INGESTION ACUTE EXPOSURE EFFECTS: NO KNOWN ADVERSE EFFECTS, BUT INGESTION NOT RECOMMENDED. **3WJ08** 3WJ10 3WJ36 3WJ59 3WJ79 3WJ23 3WJ20 3WJ21 3WJ24 3WT25 3WT26 3WT28 3WT32 3W133 3WT34 3WJ45, 3WJ62, 3WJ99, 3WJ44, 3WJ61, 3WJ46 3WJ64 3WJ47 3WJ68 3WJ52 3WJ71 3WJ53 3WJ74 3WJ54 3WJ75 - SECTION 4. FIRST AID MEASURES -**3WK03** 3WJ81 3WJ98. 3WK09 3WK18 3WK25 3WK27 3WK29 3WK30 3WK31 3WK40 3XF56 3XF67 3XD39 3XF59 3XF71 3XD44 3XF62 3XF74 3WK32 3WK34 3XF47 3WK36 3WK37 3XF51 3WK41 3XF57 3WK43 3XD42 3XF60 3XD43, 3XF61, 3XF50 3XF65 3XF58 3XF70 3XF64, 3XY65, 4F885, 4F899, REMOVE TO FRESH AIR. IF EREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION IMMEDIATELY. 3XF66 3XF68 3XF63 3XF72 4F861 3XF73 4F883 4F897 3XF76 4F855 4F856 4F857 4F858 4F859 4F860 4F862 4F860, 4F893, 4F907, 4F930, 5A942, 5A953, 4F884, 4F898, 4F886, 4F900, 4F915, 4F888 4F904 4F890 4F905 4F88 SKIN CONTACT: WASH AFFECTED AREAS WITH SOAP AND WATER. OBTAIN MEDICAL ASSISTANCE. 4F906 4F909 4F926, 4LL17, 5A949, 5A960, 4F947, 5A944, 5A955, 4F949 5A945 5A956 4F913 4F914 4F927 4F928 4F929 4F931 41115, 5A947, 4LL16, 5A948, 4RA91 5A950 4RA93 5A952 5A943 5A954 4RA92 WASH WITH LARGE AMOUNTS OF WATER. OBTAIN FIRST AID AND MEDICAL ASSISTANCE, 5A959, 5A970, 5A984, 5A996, 5A964, 5A977, 5A989, 6A002, 5A961 5A957 5A958 5A962 5A963 5A965 5A966 5A967 5A969, 5A983, 5A995, 6A007, 5A972 5A986 5A998 5A976, 5A988, 5A978, 5A990, 6A003, 5A980, 5A991, 6A004, 5A981 5A992 5A968 5A971 IF NEEDED 5A985 5A997 5A987 5A982, 5A994, CALL POISON CONTROL CENTER, HOSPITAL EMERGENCY ROOM OR PHYSICIAN IMMEDIATELY. 6A005 6A001 6A010 6A025 6A039 6A013 6A028 6A053 6A016 6A032 6MT06 62006 6A008, 6A021, 6A009 62012 6A014 6A030 6A015 6A031 6MT04 6A038 6A040 6RC40 6A052 6PF47 6RC60 6RC72 6RD73 6RC42, 6RC66, 6RC77, 6RD79, 6RC45 6RC69 6RD70 6MT19 6MT20 6RC36 6RC39 6RC41 6RC65 6RC43 6RC44 - SECTION 5. FIRE FIGHTING MEASURES 6RC63 6RC74 6RC67 6RC78 6RC62 FIRE FIGHTING PROCEDURES: NOT APPLICABLE 6RD71 6RD72 6RD74 6RD75 6RD77 6RD78 6RD80 GRD81 6RD82 6RJ65 6RK36 6RK48 6RM02 6RF87 6RJ72 6RF88 6RJ84 GRF89 GRK26 6RF92 6RK27 6RG17 6RK32 FRG18 6RF74 **6RF75** 6RF77 6RF86 HAZARDOUS PRODUCTS/COMBUSTION: NONE. 6RK43 6RK94 6RM17 1EDL6 6RK46 6RK47 6RK37 GRK38 6RK39 6RK40 6RK41 6RK44 6RK45 HAZARD RATING SOURCE NFPA: GRK83 GRM06 6RK84, 6RM11, 1EDK9, 6RK87 6RM16 6RK95 6RM20 1EDL8 6RK96, 1EDJ6, 1EDN1, GRK49 **6RK85** GRI AC GRT 99 HEALTH 1
FLAMMABILITY 0
REACTIVITY 0 1EDK3 1EDN7 1EDN5 1EDK5 1EDK 1EDL2 1EDL4 1EDN3 1EDP1 1EDT3 1EDU5 1FDN8 1EDN9 1EDP2 1EDP3 1EDP4 1EDP5 1EDP6 1EDP7 1EDP8 1EDP9 1EDIS, 1EDV1, 1EDT9 1EDU2 1YFN8 1YFT3 1EDT4 1EDU6 LEDIG, 1EDU7, 1EDU1 1EDT1 1EDU3 1EDIS 1EDU7 OTHER 1EDU4 1YFP3 1YFP5 1YFP7 1YFP9 1YFR2 1YFR4 1YFR6 1YFT1. - SECTION 6. ACCIDENTAL RELEASE MEASURES 1YFV3, 1YFV5, 1YFV7, 1YFV9, 1YFW2, 1YFW4 CLEAN-UP: FOLLOW NORMAL CLEAN UP PROCEDURES TAL SAFETY DATA SHEET i: 66261133434 SECTION 7. HANDLING AND STORAGE -DATE PRINTED: JAN 22, 2007 HANDLING: HANDLE WITH ADEQUATE VENTILATION FOR NUISANCE DUST. MSDS NO.: ALCOATOO1 OUTBOUND - SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION -ALUMINUM OXIDE COATED ABRASIVE

RESPIRATORY PROTECTION: RESPIRATORS ARE REQUIRED WHEN AIRBORNE CONTAMINANT LEVELS EXCEED THE  $\operatorname{TLV}(S)$  .

S WEAR SAFETY GLASSES OR SOME TYPE OF EYE PROTECTION WHILE SANDING.

A PROTECTION:
USE OF THIS PRODUCT MAY CREATE ELEVATED SOUND LEVELS. HEARING PROTECTION
SHOULD BE WORN WHERE REQUIRED (SEE OSHA 29 CFR 1910.134 AND OTHER
APPLICABLE REGULATIONS).

- SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR: SOLID ARTICLE, ODORLESS.

- SECTION 10. STABILITY AND REACTIVITY

INCOMPATIBILITIES: AVOID ACIDS OF ALL TYPES WITH A pH < 4.0.

DECOMPOSITION:

IN USE, DUST AND DECOMPOSING ODORS MAY BE GENERATED. IN MOST CASES, THE MATERIAL REMOVED FROM THE WORKPLACE WILL BE SIGNIFICANTLY GREATER THAN THE SANDPAPER COMPONENTS. COOLANTS MAY PRODUCE OTHER DECOMPOSITION PRODUCTS.

FOR PRODUCTS CONTAINING PHENOL AND FORMALDEHYDE RESIN, THERMAL DECOMPOSITION MAY PRODUCE TRACE AMOUNTS OF PHENOL AND FORMALDEHYDE.

FOR PRODUCTS CONTAINING INORGANIC FLUORIDES, THERMAL COMPOSITION MAY PRODUCE TRACE AMOUNTS OF FLUORIDES.

- SECTION 11. TOXICOLOGICAL INFORMATION -

CARCINOGENICITY: NOT APPLICABLE

LD50/LC50: VALUES ARE NOT APPROPRIATE OR AVAILABLE.

- SECTION 12. ECOLOGICAL INFORMATION -

CHEMICAL FATE: NOT APPLICABLE

- SECTION 13. DISPOSAL CONSIDERATIONS -

WASTE DISPOSAL:

USE STANDARD LANDFILL METHODS CONSISTENT WITH APPLICABLE FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS.

- SECTION 14. TRANSPORT INFORMATION

ND CLASS:

PRODUCT IS NOT HAZARDOUS AS DEFINED BY THE DEPARTMENT OF TRANSPORTATION. (USA)

THIS PRODUCT IS "NOT REGULATED" UNDER THE TRANSPORTATION OF DANGEROUS GOODS

--- SECTION 15. REGULATORY INFORMATION -

EXPOSURE LIMITS/REGULATORY INFORMATION:

SUBSTANCE DESCRIPTION OSHA ACGIH MOL

ALUMINUM OXIDE, NON-FIBROUS MG/M3 15.0000 10.0000 10,0000

CLOTH OR PAPER BACKING PPM 0.0000 0.0000 0.0000

BINDER SYSTEM PPM 0.0000 0.0000 0.0000

MG/MB 15.0000 10.0000 CALCIUM CARBONATE 0.0000

LEGEND:

EXPOSURE LIMIT DESCRIPTIONS:

CA PROP 65: NOT APPLICABLE

TSCA:

SECTION 8(B) - INVENTORY STATUS:

ALL COMPONENTS OF THIS PRODUCT ARE REGISTERED UNDER THE REGULATIONS OF THE TOXIC SUBSTANCE CONTROL ACT.

DOMESTIC SUBSTANCE LIST: ALL COMPONENTS OF THIS PRODUCT ARE FOUND ON THE DOMESTIC SUBSTANCE LIST.

- SECTION 16. OTHER INFORMATION

DISCLATMER: DISCLAIMENT OF THE RECOMMENDATIONS SET FORTH HEREIN ARE TAKEN FROM SOURCES BELIEVED TO BE ACCURATE AS OF THE DATE HEREOF; HOWEVER, THE COMPANY MAKES NO WARRANTY WITH RESPECT TO THE ACCURACY OF THE INFORMATION OR THE SUITABILITY OF THE RECOMMENDATIONS, AND ASSUMES NO LIABILITY TO ANY USER THEREOF.

ABBREVIATIONS:

EOUAL

LESS THAN

GT = GREATER THAN

AP = APPROXIMATELY

TR = TRACE

ND = NO DATA AVAILABLE

### ITEM: 3XY65 - SANDPAPER SHEETS PK25

MSDS: A6418

PICK REO: 1126210183

**MATERIAL SAFETY DATA SHEET (MSDS)** 

1PR58, 1PR59, 1PR95 1PT50, 1PT51, 1PT52 1PW29, 1PW30, 1PW31 1PW40, 1PW41, 1PW42 1PR50 1 PR53 NORTON 1PT47, 1PW26, 1PW37, 1PT48, 1PW27, 1PT43, 1PT55, 1PW34, 1PW45, 2D537, 1PW28, 1PW39, 1PW50, 2D542, MATERIAL SAFETY DATA SHEET 1PT53 1PT54 1PT56. 1PW25 1PW36 1PW32, 1PW43, 2D535, 1PW38, 1PW49, 2D541, 1PW42 2D534 2D545 2D556 1PW33 1PW35 1PW44, 2D536, 1PW46, 2D538, 2D549, 1PW47, 2D539, 1PW48, 2D540, 2D551, 1FW51 2D543 1PW52, 2D544, 2D555, DATE PRINTED: JUN 16, 2004 MSDS NO.: ALCOATO01 OUTBOUND 2D546 2D557 2D554 2D547 20548 2D550 2D552 2D553 2D549, 2D560, 2D571, 2D618, 2D719, 2D558 2D569 2D559, 2D570, 2D617, 2D561, 2D572, 2D562, 2D591, 2D563 2D592 2D564 2D567 2D596 2D565 2D566 ALUMINUM OXIDE COATED ABRASIVE 2D568 2D622, 2D723, 2D734, 2D745, 2D597 2D616 2D619, 2D620 2D621 2D623 2D724 2D624 2D625 2D627 2D728 2D739 2D721, 2D732, 2D743, 3CL97, 2D726 2D737 2D748 3UN05 20718. 2D720, 2D722 2D725 2D730, 2D741, 2D731, 2D742, 2D733 2D744 2D735 2D746 - SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION -2D740, 2D800. 2D738 PRODUCT NAME ALIMINUM OXIDE COATED ABRASIVE 3UM86 3UN12 3UN23 3UM87 3UN13 3UN24 3UN42 2D798 20799 2D801 2VW58 3TM88 3UMR9. 3UN08, 3UN19, 3UN37, 3UN09, 3UN20, 3UN38, 3UN07 3UN18 3UN10, 3UN21, 3UN11, 3UN22, 3UN14 3UN32 3UN16 3UN34 3UN15 3UN33 3UP53 3UN17 3UN21, 3UN39, TRADE NAME:

ADALOX OR ABRASIVE CAP CODES:

HIXX, ALXX, AZXX, EZXX, FZXX, GZXX, HZXX, KZXX, QLXX, QZXX, RZXX, SZXX,
TZXX, UZXX, WZ 3UN35 3UN36 3UN40 3UN41 3UN43 3UP54 3VK63, 3VK74, 3VK86, 3VK64, 3VK75, 3VK87, 3VK65, 3VK76, 3VK88, 3VK66, 3VK77, 3VK89, 3VK67 3VK78 3VK90 3VK68, 3VK79, 3VK91, 3VK71 3VK83 3VL58 3UP55, 3VK72, 3UP56 3VK69 3VK70 3VK80 3VL55 3VK81 3VL57 3VK84 3VK85 3VK89, 3VL64, 3VL98, 3VM10, 3VM21, 3VM32, 3VM44, 3VM89, 3VN01, 3VN12, 3VW13, 3VW25 MANUFACTURER (4): SAINT-GOBAIN ABRASIVES, INC. ONE NEW BOND STREET WORCESTER, MA 01615-0008 (508) 795-5000 3VL76, 3VL76, 3VM05, 3VM16, 3VL60, 3VL77, 3VM06, 3VM17, 3VL62 3VL63, 3VL96, 3VM09, 3VM20, 3VL61, 3VL65 3VL66 3VL73 3VL74 3VL75 3VM04 3VM15 3VM26 3VM37 3VM51 3VM94 3VN06 3VL78, 3VM07, 3VM18, 3VM29, 3VL79, 3VM08, 3VM19, 3VL99 3VM11 3VM22 3VM01 3VM12 3VM23 3VM02, 3VM13, 3VM24, 3VM03, 3VM14, 3VM25, 3VM36, 3VM28 3VM39 3VM53 3VM96 3VM30 3VM31, 3VM42, 3VM88, 3VM99, 3VM27, 3VM38, 3VM33 31M134 3VM35 3VM30, 3VM41, 3VM55, 3VM98, 3VN10, 3VW11, 3VW23, 3VW34, 3VM40, 3VM54, 3VM97, 3VM50 3VM93 3VN05 3VM46 3VM90 3VM48 3VM91 3VM49 3VM92 REVISION DATE: 6/11/2004 3VM52 3VN02 3VN13 3VW14 3VW26 3VM95, 3VN07, 3VN04 3VN03 3VM97, 3VN09, 3VW10, 3VW22, 3VW33, 3VW44, 3VM11, 3VW12, 3VW24, 3VW35, 3VW46, 3VW59, 3VN14 3VW15 3VW27 3VN15 3VW16 3VW28 3VN17 3VW19 3VW30 3VW41 3VN08 3VV79 3VNT 6 MSDS PRINT FORMAT: NUSA 3VW17, 3VW29, 3VW40, 3VW25, 3VW36, 3VW47, 3VW60, 3VW71, 3VW82, 3VW93, 3VW27, 3VW20 3VW21 3VW31, 3VW42, 3VW53, 3VW38 3VW49 3VW62 - SECTION 2. COMPOSITION/INFORMATION ON INCREDIENTS -3VW32 3VW37 3VW39 3VW34, 3VW45, 3VW56, 3VW69, 3VW80, 3VW91, 3VX25, 3VZ35, 3VW52 3VW65 3VW76 3VW87 3VX21 3VX32 3VW51 3VW64 3VW75 3VW48 3VW61 3VW50 3VW63 SUBSTANCE DESCRIPTION 3VW70, 3VW81, 3VW92, 3VW66, 3VW77, 3VW88, 3VW67 3VW78 3VW89 3VW73 3VW84 3VW72 3VW74 3VW79 3VW90 3VW83, 3VW94, 3VX28, 3VW85 3VW96 3VW86 ALUMINUM OXIDE, NON-FIBROUS 15.000-25.000 1344-28-1 3VX20, 3VX31, 45,000-55,000 CLOTH OR PAPER BACKING 3VX23 3VX24 3VX26 3VX22 3VX29 3VX30 3VX33, 3WH56, 3VX34 3WH57 3WH68 3VZ72, 3WH61, 3WH72, 3VZ73 3WH62 3WH73 3VX35 3V771 3V787 3WH53 3WH54 3WH55 3WH60, 3WH71, 3WH82, 3WH58 3WH69 3WH59, 3WH70, 3WH64 3WH75 3WH65, 3WH76, 3WH66 3WH77 BINDER SYSTEM \*\* 10.000-30.000 N/A 3WH67 \*\* SUBSTANCE IS A COMPOUND AND/OR MIXTURE 3WH78 3WH79 3WH80 3WH81. 3WH83 3WH84 3WH85 3WH86 3WH87 3WH88 3WH93, 3WJ05, 3WJ16, 3WH95 3WJ07 3WJ18 3WH89, 3WJ01, 3WH90 3WH91 3WH92 3WH94 3WH96 3WJ08 3WH97 3WH98 3WH99 3WJ02 3WJ13 3WJ03 3WJ14 3WJ04 3WJ15 3WJ06 OTHER: NOT APPLICABLE 3WJ12 3WJ23 3WJ19 3WJ20 3WJ21 3WJ22 3WJ25 3WJ36 3WJ47 3WJ26, 3WJ37, 3WJ48, 3WJ59, 3WJ28, 3WJ39, 3WJ50, 3WJ61, 3WJ29 3WJ40 3WJ51 3WJ62 3WJ32, 3WJ43, 3WJ54, 3WT24 3WT27 3WT30 3WT31 3WT33 3WJ38, 3WJ49, 3WJ60, 3WJ35 3WJ46 3WJ41 3WJ52 3WJ42 3WJ53 3WJ44 3WJ55 SECTION 3. HAZARDS IDENTIFICATION INHALATION ACUIE EXPOSURE EFFECTS:
DUST MAY BE SLIGHTLY IRRITATING TO EYES AND RESPIRATORY TRACT AT HIGH
CONCENTRATIONS. 3WJ66 3WJ58. 3WJ63 3WJ64 3WJ65 3WJ71, 3WJ82, 3WJ93, 3WJ70. 3WT68 3WT69 3WT72 3WJ73 3WJ74 3WJ75 3WT76 3WJ77 3WJ79 3WJ90 3WK02 3WJ80 3WJ91 3WJ81 3WJ92 3WJ83 3WJ94 3WK06 3WJ84 3WJ95 3WK07 3WJ96 3WJ86 3WJ97 3WJ88 3WJ99 3WK11 3WK22 3WK33 3WZ66 3WK03 3WK04 3WK05 3WK08 3WK09 3WK10 CHRONIC EXPOSURE EFFECTS INHALATION CHRONIC EXPOSURE EFFECTS:
CHRONIC: MAY AFFECT BREATHING CAPACITY.
FOR PRODUCTS CONTAINING PHENOL/FORMALDEHYDE RESIN, DUST GENERATED FROM
INTENDED USE MAY CONTAIN TRACE AMOUNTS OF PHENOL AND FORMALDEHYDE WHICH
UNDER EXCESSIVE EXPOSURE MAY CAUSE SKIN SENSITIZATION AND AIRWAY
OBSTRUCTION.
FOR PRODUCTS CONTAINING INORGANIC FLUORIDES, EXCESSIVE EXPOSURE TO
INORGANIC FLUORIDES HAVE BEEN SHOWN TO INCREASE BONE DENSITY. 3WK13 3WK24 3WK35 3WK14 3WK25 3WK36 3WK15 3WK16, 3WK27, 3WK38, 3WK17, 3WK28, 3WK39, 3WK18 3WK29 3WK40 3WK19, 3WK30, 3WK41, 3WK20 3WK31 3WK42 3WK21 3WK26 3WK37 3XD30 3WK32 3WK43 3WK23, 3WK34, 3WZ82. 3XD33 3XD45 3XD86 3XD28 3XD29 3XD31 3XD32 3XD34 3XD35 3XD36 3XD37 3XD35 3XD47 3XD88 3XD99 3XF47 3XF58 3XF69 3XD41, 3XD82, 3XD93, 3XD42 3XD83 3XD94 3XD38, 3XD80, 3XD39 3XD81 3XD43, 3XD84, 3XD44, 3XD85, 3XD46 3XD87 3XD48 3XD89 3XD79 3XD90 3XF02 3XF49 3XF60 3XF71 3XD91 3XD92 3XD95 3XF07 3XD96 3XD97 3XD98 3XF01 3XF04 3XF51 3XF62 3XF09, 3XF56, 3XF67, 3XF10, 3XF57, 3XF68, 3XF03, 3XF50, 3XF05 3XF06 3XFOR 3XF48 3XF52 3XF63 3XF53 3XF64 3XF54, 3XF65, 3XF55 3XF66 3XF59 3XF70 EYE CONTACT ACUTE EXPOSURE EFFECTS: DUST MAY IRRITATE EYES. 3XF61 3XF98, 4F814, 4F825, 4F836, 4F847, 3XF77, 4F811, 4F822, SKIN CONTACT ACUTE EXPOSURE EFFECTS: SOME MAY EXPERIENCE SKIN IRRITATION FROM DUST. 3XF72 3XF73 3XF74 3XF75 3XF76. 3XF93 3XF95 3XG01 3XG02 3XG07, 4F819, 4F830, 3XG06, 4F818, 4F809 4F820 4F810, 4F821, 4F812, 4F823, 4F813 4F824 4F815 4F826 4F816 4F827 INGESTION ACUTE EXPOSURE EFFECTS: NO KNOWN ADVERSE EFFECTS, BUT INGESTION NOT RECOMMENDED. 4F831 4F832, 4F843, 4F860, 4F892, 4F833, 4F834 4F845 4F828 4F829 4F835 4F837 4F838 4F855 4F842 4F859 4F891 4F846, 4F883, 4F895, 4F839, 4F856, 4F840 4F841 4F844 4F848 4F845, 4F862, 4F894, 4F908, 4F947, 4LL19, 5A945, 4F857, 4F888, 4F858 4F890 4F861, 4F893, 4F884 4F897 4F885, 4F898, 4F887 4F893, 4F907, 4F931, 4LL18, 5A944, 5A955, 5A966, 5A984, 5A995, 5GC79, 6A003, 6A014 4F904 4F927 4LL15 4F905, 4F929, 4LL16, 5A942, 4F909, 4F948, 4LL54, 4F914 4LL12 4LL57 - SECTION 4. FIRST AID MEASURES -4F900 4F901 4F906, 4F910 4F913 4F926, 4LL14, 4LL59, 4F930, 4LL17, 5A943, 4F950, 4LL56, 5A948, 4F949 4LL55 INHALATION: REMOVE TO FRESH AIR. IF EREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION IMMEDIATELY. 5A947 5A958 5A969 5A987 4LL58 4LL60 5A946 5A949 5A951, 5A962, 5A980 5A952 5A963 5A981 5A954, 5A965, 5A983, 5A956 5A967 5A985 5A957, 5A968, 5A986, 5A960 5A971 5A989 5A950 5A953 5A959 5A964, 5A982, 5A993, 5A970, 5A988, 5A999, 5A961, 5A973, SKIN CONTACT: WASH AFFECTED AREAS WITH SOAP AND WATER. OBTAIN MEDICAL ASSISTANCE. 5A983, 5A994, 5GC78, 6A002, 6A013, 6A030, 5GC73 5GC96 6A008 5A998 5A990 5A991 5A992 5A996 5A997 5GC75 5GC98 6A010 5GC76 5GD22 6A011 5GC77 6A001 5GC92 6A004 5GC93 6A005 6A016 5GC94 6A006 6A017 5GC95 6A007 EYE CONTACT: WASH WITH LARGE AMOUNTS OF WATER. OBTAIN FIRST AID AND MEDICAL ASSISTANCE, 6A014 6A018 6A009 6A015 6A025 6A031 6A032, 6MT03, 6R819, 6A026 6A027 6A028 6A029 6A033 6A034 6A036 6A037 IF NEEDED. 6A039 6A040 6PF42 6MR48 6PF48 6MT01, 6PF55, 6MT02, 6R811, 6MT04, 6R821, 6MT05, 6R831, 6MT06 6R851 6MT07 CALL POISON CONTROL CENTER, HOSPITAL EMERGENCY ROOM OR PHYSICIAN IMMEDIATELY. 6MT19 6RC10 6RC12 6RC55 6RC56 6RC57 6RC58 6RC59 6RC60 6RC61 6RC62 6RC63 6RC74 6RC89 6RC65 6RC76 6RC91 6RC67 6RC78 6RD18 6RC72 6RC87 6RD23 GRC66 GRC77 6RC68 6RC83 6RC69 6RC70 6RC85 6RC71 6RC86 6RC73 6RC88 6RD24 6RD21 6RD32 6RD43 6RD54 6RC90 6RD17 6RD19 6RD20 6RD22 6RD25 GRD30, GRD41, GRD52, 6RD33, 6RD44, 6RD55, 6RD34 6RD45 6RD56 - SECTION 5. FIRE FIGHTING MEASURES 6RD26 6RD37 6RD27 6RD28 6RD29 GRD31 6RD35 6RD36 GRD40 GRD51 GRD42, GRD53, 6RD46 6RD57 6RD47 6RD58 6RD39 FIRE FIGHTING PROCEDURES: NOT APPLICABLE 6RD48 6RD50 6RD59 6RD60 6RD61 GRD62 6RD63 6RD68 6RD69 6RD70 6RD71 6RD72 6RD73 6RD75 6RD86 6RF57 6RD76 6RD94 GRD77 GRD95 GRD78 6RD79 6RD99 GRD80 GRF01 6RD81 6RF02 6RD82 6RF03 6RD84 6RF55 6RD74, 6RD83 HAZARDOUS PRODUCTS/COMBUSTION: NONE. GRD85 6RF61, 6RF73, 6RF92, 6RJ72, 6RK28, 6RF59 6RF71 6RF90 6RJ69 6RF60, 6RF72, 6RF91, 6RJ71, 6RF62 6RF74 6RF93 6RJ73 6RF63, 6RF75, 6RG17, 6RJ78, 6RF66 6RF67 6RF86 6RJ65 6RJ82 HAZARD RATING SOURCE: 6RF56 6RF58 6RF65 HAZARD RATING S NFPA: NFPA: NFAAMABILITY O REACTIVITY OTHER 6RF70 6RF89 6RJ68 6RF76 6RG18 6RJ79 GRF68 6RF69 6RF77 6RJ81 6RK30 6RK31 6RJ84 6RK25 6RK26 6RK27 6RK29 6RK32 6RK33 6RK35 6RK36 6RK47 6RK37 6RK48 6RK38, 6RK49, ERK39, 6RK40 6RK81 6RK41 6RK82 6RK42 6RK83 6RK43 6RK44 6RK46 6RK85 6RK96 6RK94 6RK88 6RK89 6RK90. 6RK91. 6RK92 6RK93 6RM02 6RM13 EVK82 FRK97 6RK99 6RM07 6RM18 6RM01 - SECTION 6. ACCIDENTAL RELEASE MEASURES -6RK98 6RL77 6RL82 GRI.90 **GRT 99** 6RMD3 6RM04 6RM06 6RM08 6RM1.9 6RM09, 6RM20, 6RM10, 6RM21, 6RM11 9CH13 6RM12 9DV32 6RML4 EVL56 6RM15 3VK82 CLEAN-UP: FOLLOW NORMAL CLEAN UP PROCEDURES. GRM16 3VL97 3VW58 3XY65 5GD02 5GD03 5GD05 5CED06 5GD07

5GD17, 5GD18,

5GD13, 5GD14,

HANDLING: HANDLE WITH ADEQUA	TE VENT	ILATION FOR	NUISANCE :	DUST.			
SECTION 8. EXE	POSURE CO	NTROLS/PERS	ONAL PROTEC	TION —			
VENTILATION PROTECTION: PECOMMEND USING LOCAL EXHAUST ING THE AIRBORNE CONCENT	VENTILAT RATION B	ION WHEN G	eneral vent V.	TLATION IS NOT			
PIRATORY PROTECTION: PIRATORS ARE REQUIRED WHEN	n AIRBOR	NE CONTAMI	NANT LEVEL	S EXCEED THE			
EYE PROTECTION: ALWAYS WEAR SAFETY GLASSES OF	SOME TY	PE OF EYE P	ROTECTION W	HILE SANDING.			
	USE OF THIS PRODUCT MAY CREATE ELEVATED SOUND LEVELS. HEARING PROTECTION SHOULD BE WORN WHERE REQUIRED (SEE OSHA 29 CFR 1910.134 AND OTHER						
SECTION 9.	PHYSIC	AL AND CHEM	ICAL PROPER	TIES			
APPEARANCE & ODOR: SOLID ART	ICLE: OD	ORLESS.					
SECTION 10	. STABIL	ITY AND REA	CTIVITY —	<del></del>			
INCOMPATIBILITIES: AVOID ACII	OS OF A	LL TYPES WI	TH A pH <	4.0.			
DECOMPOSITION: IN USE, DUST AND DECOMPOSING O MATERIAL REMOVED FROM THE WORK SANDPAPER COMPONENTS. COOLAND FOR PRODUCTS CONTAINING PHEN DECOMPOSITION MAY PRODUCE TR FOR PRODUCTS CONTAINING INOR PRODUCE TRACE AMOUNTS OF FLAX	PLACE WI MAY PR OL AND I ACE AMOU BANIC FLI	LL BE SIGNI ODUCE OTHER FORMALDEHYI NTS OF PHEN	FICANTLY GR DECOMPOSITI DE RESIN, T KOL AND FOR	EATER THAN THE TON PRODUCTS. HERMAL MALDEHYDE.			
SECTION 11.	TOXICOL	OGICAL INFO	RMATION				
CARCINOGENICITY: NOT APPLICA	BLE						
LD50/LC50: VALUES ARE NOT APP	PROPRIATI	E OR AVAILA	BLE.				
SECTION 1	2. ECOLO	GICAL INFORM	MATION				
CHEMICAL FATE: NOT APPLICABI	Œ						
WASTE DISPOSAL: USE STANDARD LANDFILL METHODS BEOVINCIAL AND LOCAL LAWS.  SECTION 1  [AT ARD CLASS: PRODUCT IS NOT HAZARDOUS SPORTATION. (USA)  LOS PRODUCT IS "NOT REGULATED ACT. (CAN)	4. TRANS	PORT INFORM	ATION ——	I OF			
SECTION 1	5. RRZII.J	מסראות עסרים	ATTON				
EXPOSURE LIMITS/REGULATORY IN							
SUBSTANCE DESCRIPTION		OSHA	ACGIH	MOL			
ALUMINUM OXIDE, NON-FIBROUS		15.0000	10.0000				
CLOTH OR PAPER BACKING	PPM	0.0000	0.0000	0.0000			
BINDER SYSTEM	PPM	0.0000					
LEGEND:	FFF	0.0000	0.0000	0.0000			
EXPOSURE LIMIT DESCRIPTIONS:							
CA PROP 65: NOT APPLICABLE							
TSCA: SECTION 8 (B) - INVENTORY STATUS: ALL COMPONENTS OF THIS PRODUCT ARE REGISTERED UNDER THE REGULATIONS OF THE TOXIC SUBSTANCE CONTROL ACT.							
DOMESTIC SUBSTANCE LIST: ALL COMPONENTS OF THIS PRODUC	T ARE FO	IND ON THE I	DOMESTIC SU	BSTANCE LIST.			
SECTION	16. OTH	ER INFORMAT	ION				
DISCLAIMER: THE INFORMATION AND RECOMMENDAY THE INFORMATION AND RECOMMENDAY NO WARRANTY WITH RESPECT TO T SUITABILITY OF THE RECOMMENDAY THEREOF.	THE DATE HE ACCUR	E HEREOF; HO MACY OF THE	WEVER, THE INFORMATIO	COMPANY MAKES ON OR THE			
KEY TO ABBREVIATIONS: EQ=EQUAL							
LT=LESS THAN REATER THAN							
PPROXIMATELY RACE DATA AVAILABLE							

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#### **MATERIAL SAFETY DATA SHEET (MSDS)**

This MSDS should be attached or kept with the respective product with which it is associated.

TAL SAFETY DATA SHEET - A5160

ABSOCIATED Grainger Items

4UG98

GE

GE SILICONES
FORMAT: USA

MATERIAL SAPETY DATA SHEET

PRODUCT: GEO12A SILICONE PHREE COMPOUND

-----1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION -----

MANUFACTURED BY:

GE SILICONES

260 HUDSON RIVER ROAD

WATERFORD, NY 12188

EMERGENCY PHONE (24 HRS): (518) 237-3330

ICONES
EUDSON RIVER ROAD
WATERFORD, NY 12188

EMERGENCY PHONE (24 HRS): (518) 237-3330

REVISED: 02/25/03

PREPARER: B. JAVOREK

CHENICAL FAMILY/USE: SILICONE RUBBER SEALANT

PORMULA: MIXTURE

----2. COMPOSITION/INFORMATION ON INGREDIENTS -----

PRODUCT COMPOSITION/ APPROX. ACGIE TLV OSHA PEL

CAS REG NO. WGT. % TWA STEL TWA STEL UNITS

1. EAZARDOUS

TREATED PUMED SILICA 5-10 10 NE 15 NE MG/M3 68611-44-9

DISTILLATES, PETROLEUM 5-10 NE NA NE NA NA

AS A CARCINOGEN OR SUSPECTED CARCINOGEN BY NTF, LARC, OR OSEA.

PRODUCTS/INGREDIENTS: THIS SPACE RESERVED FOR SPECIAL USE.

64742-47-8

METRYLTRIACETOXYSILANE 1-5 10(R) NE 10(R) NE PPM

4253-34-3

2. NON-HAZARDOUS

POLYDIMETHYLSILOXANE 60-80 NE N

SILANOL/STPI

SEE SECTION 15 FOR DESCRIPTION OF ANY WHMIS TRADE SECRET(S).

----3. HAZARDS IDENTIFICATION -----

EMERGENCY OVERVIEW:

HARNINGI

MAY BE HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.

IRRITATING TO SKIN, EYES, AND RESPIRATORY TRACT.

MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION.

AMMONIA ODOR
TRANSLUCENT SOLID

POTENTIAL HEALTH EFFECTS:

INGESTION:

MAY BE HARMFUL IF SWALLOWED.

MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS.

MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA.

SKIN CONTACT:

UNCURED PRODUCT CONTACT WILL IRRITATE LIPS, GUMS AND TONGUE.

UNCURED PRODUCT CONTACT MAY IRRITATE THE SKIN.

MAY BE ABSORBED THROUGH SKIN AND PRODUCE EFFECTS AS LISTED UNDER

"INGESTION".

INHALATION:

CAUSES MILD RESPIRATORY IRRITATION.

APPLIES ONLY IN UNCURED STATE.

MAY ALSO CAUSE OTHER EFFECTS AS LISTED UNDER "INGESTION".

EYE CONTACT: UNCURED PRODUCT CONTACT IRRITATES EYES.

MEDICAL CONDITIONS AGGRAVATED: PRE-EXISTING SKIN OR RESPIRATORY DISEASES

SUBCHRONIC (TARGET ORGAN) EFFECTS:

CENTRAL NERVOUS SYSTEM

SKIN

CHRONIC EFFECTS/CARCINOGENICITY:

THIS PRODUCT OR ONE OF ITS INGREDIENTS PRESENT 0.1% OR MORE IS NOT LISTED

EXTINGUISHING MEDIA: ALL STANDARD PIREFIGHTING MEDIA

SPECIAL FIREFIGHTING PROCEDURES:

PRINCIPLE ROUTES OF EXPOSURE:

OPST.

DERMAL - SKIN.



OTHER:

THIS PRODUCT CONTAINS METHYLPOLYSILOXANES WHICE CAN GENERATE FORMALDEHYDE
AT APPROXIMATELY 300 DEGREES FAHRENHEIT (150 DEG. C) AND ABOVE, IN
ATMOSPHERES WHICE CONTAIN OXYGEN. FORMALDEHYDE IS A SKIN AND RESPIRATORY
SENSITIZER, EYE AND THROAT IRRITANT, ACUTE TOXICANT, AND POTENTIAL CANCER
HAZARD. AN MSDS POR FORMALDEHYDE IS AVAILABLE FROM GE SILICONES.

----4. FIRST AID MEASURES -----

INGESTION:

DO NOT INDUCE VOMITING. IF VICTIM IS CONSCIOUS, GIVE 1-3 GLASSES OF WATER TO DRINK. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

SKIN:

TO CLEAN FROM SKIN, REMOVE COMPLETELY WITH A DRY CLOTH OR PAPER TOWEL, BEFORE WASHING WITH DETERGENT AND WATER.

GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

INHALATION:

IP INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL

TRATION USING A BARRIER DEVICE. IF BREATHING IS DIFFICULT GIVE OXYGEN.

EDICAL ATTENTION.

EYES:

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET HEDICAL ATTENTION IF IRRITATION PERSISTS.

NOTE TO PHYSICIAN: NONE KNOWN.

-----5, FIRE PIGHTING MEASURES -----

PLASH POINT: NA (C) NA (F)

METHOD: NA

IGNITION TEMP: UNK (C) UNK (F)

FLAMMABLE LIMITS IN AIR - LOWER (%): UNK
FLAMMABLE LIMITS IN AIR - UPPER (%): UNK

SENSITIVITY TO MECHANICAL IMPACT (Y/N): NO

SENSITIVITY TO STATIC DISCHARGE:

SENSITIVITY TO STATIC DISCHARGE IS NOT EXPECTED.

----9. PHYSICAL AND CHEMICAL PROPERTIES -----

T INFORMATION:

BOILING POINT: NA (C) NA (F)

VAPOR PRESSURE (20 C) (MM HG): NA

PIREPIGHTERS MUST WEAR NIOSE/MSEA APPROVED POSITIVE PRESSURE
SELF-CONTAINED BREATEING APPARATUS WITH FULL FACE MASK AND FULL PROTECTIVE

CLOTHING.

----6. ACCIDENTAL RELEASE MEASURES -----

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

WIPE, SCRAPE OR SOAK UP IN AN INERT MATERIAL AND PUT IN A CONTAINER FOR

MASH WALKING SURPACES WITH DETERGENT AND WATER TO REDUCE SLIPPING EAZARD.

WEAR PROPER PROTECTIVE EQUIPMENT AS SPECIFIED IN THE PROTECTIVE EQUIPMENT

SECTION.

----7. HANDLING AND STORAGE -----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

KEEP CONTAINER CLOSED WHEN NOT IN USE.

AVOID CONTACT WITE SKIN AND EYES.

REMOVE CONTACT LENSES BEFORE USING SEALANT. DO NOT HANDLE LENSES UNTIL ALL SEALANT HAS BEEN CLEANED FROM THE FINGER-TIPS, NAILS AND CUTICLES.

RESIDUAL SEALANT MAY REMAIN ON FINGERS FOR SEVERAL DAYS AND TRANSFER TO LENSES AND CAUSE SEVERE ETE IRRITATION.

PRODUCT RELEASES METHANOL DURING APPLICATION AND CURING.

PRODUCT RELEASES AMMONIA DURING APPLICATION AND CURING.

-----8. EXPOSURE CONTROLS/PERSONAL PROTECTION -----

ENGINEERING CONTROLS:

SHOWERS AND EYEWASH STATIONS. SEE "VENTILATION" BELOW.

RESPIRATORY PROTECTION:

IF EXPOSURE LIMITS ARE EXCERDED OR RESPIRATORY IRRITATION IS EXPERIENCED, MIOSE/MSHA APPROVED RESPIRATORY PROTECTION SHOULD BE WORN. SUPPLIED AIR RESPIRATORS MAY BE REQUIRED FOR NON-ROUTINE OR EMERGENCY SITUATIONS.

RESPIRATORY PROTECTION MUST BE PROVIDED IN ACCORDANCE WITH OSHA REGULATIONS (SEE 29 CFR 1910.134).

PROTECTIVE GLOVES: CLOTE GLOVES.

BYE AND FACE PROTECTION: SAFETY GLASSES.

OTHER PROTECTIVE EQUIPMENT: WEAR EYE PROTECTION AND PROTECTIVE CLOTHING.

VENTILATION:

VENTILATION AND OTHER FORMS OF ENGINEERING CONTROLS ARE PREFERRED FOR CONTROLLING EXPOSURES. RESPIRATORY PROTECTION MAY BE NEEDED FOR NON-ROUTINE OR EMERGENCY SITUATIONS.

-----11. TOXICOLOGICAL INFORMATION -----

PRODUCT INFORMATION:

ACUTE ORAL LD50 (MG/KG): NA

VAPOR DENSITY (AIR=1): NA PREEZING POINT: NA (C) NA (F) NG POINT: NA (C) NA (F) PHYSICAL STATE: SOLID ODOR: ACETIC ACID COLOR: TRANSLUCENT ODOR TERRSHOLD (PPM): UNK \* VOLATILE BY VOLUME: NA EVAP. RATE (BUTYL ACETATE=1): <1 SPECIFIC GRAVITY (WATER=1): 1.04 DENSITY (KG/M3): 1040 ACID/ALRALINITY (MEQ/G): NA VOC EXCL. H2O & EXEMPTS (G/L): 36 ILITY IN WATER (20 C): INSOLUBLE LAILITY IN ORGANIC SOLVENT (STATE SOLVENT): TOLUENE -----10. STABILITY AND REACTIVITY -----STABILITY: STABLE HAZARDOUS POLYMERIZATION: WILL NOT OCCUR HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS: CARBON MONOXIDE. CARBON DIOXIDE. SILICON DIOXIDE. ACETIC ACID. INCOMPATIBILITY (MATERIALS TO AVOID): NONE KNOWN. CONDITIONS TO AVOID: NONE KNOWN. SARA SECTION 302: NONE FOUND SARA (311,312) HAZARD CLASS: ACUTE HEALTH HAZARD SARA (313) CHEMICALS: NONE ASSIPICATION: NA

WHNIS HAZARD CLASS:

D2B: TOXIC MATERIALS

ACUTE DERMAL LD50 (MG/KG): NA ACUTE INHALATION LC50 (MG/L): NA OTHER: NONE. AMES TEST: UNKNOWN -----12. ECOLOGICAL INFORMATION -----BCOTOXICOLOGICAL INFORMATION: NO DATA AT THIS TIME CHEMICAL FATE INFORMATION: NO DATA AT THIS TIME -----13. DISPOSAL CONSIDERATIONS -----DISPOSAL METHOD: DISPOSAL SHOULD BE HADE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL -----14. TRANSPORT INFORMATION -----DOT SEIPPING NAME: NONE DOT HAZARD CLASS: NOT DOT REGULATED DOT LABEL(S): NONE PLACARDS: NONE IATA: NOT REGULATED BY IATA IMO IMDG-CODE: NOT REGULATED FOR OCEAN TRANSPORTATION EMS NO: NA RUROPRAN CT.ASS. ADR (ECE) : NONE RAR (IATA): NONE -----15. REGULATORY INFORMATION -----COMMERCIAL CHEMICALS (BINECS) THESE DATA ARE OFFERED IN GOOD PAITE AS TYPICAL VALUES AND NOT AS PRODUCT SPECIFICATIONS. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THRSE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.

THIS PRODUCT OR ITS COMPONENTS ARE ON THE AUSTRALIAN INVENTORY (ACOIN) .

-90-

C = CEILING LIMIT

WHMTS TRADE SECRET, NONE

EXPORT:

B/HTSUS: 3910.00 SILICONES IN PRIMARY FORM

BAZARD RATING SYSTEMS:

HMIS:

PLAMMABILITY 0

REACTIVITY 0

HEALTH :

NFPA

HRALTH =

FLAMMABILITY = 0

REACTIVITY = 0

CALIFORNIA PROPOSITION 65: NONE

-----16. OTHER INFORMATION -----

THIS PRODUCT OR ITS COMPONENTS ARE ON THE EUROPEAN INVENTORY OF EXISTING

NEGL - NEGLIGIBLE

EST = ESTIMATED

NF - NONE FOUND

NA - NOT APPLICABLE

UNION - UNKNOWN

NE - NONE ESTABLISHED

REC - RECOMMENDED

ND - NONE DETERMINED

V = RECOMM. BY VENDOR

BY-PRODUCT = REACTION BY-PRODUCT, TSCA INVENTORY STATUS NOT REQUIRED UNDER

40 CFR PART 720.30(H-2)

SKN = SKIN

TS - TRADE SECRET

R = RECOMMENDED

MST = MIST

STEL - SHORT TERM EXPOSURE LIMIT

NT - NOT TESTED

ALL CHEMICAL SUBSTANCES IN THIS MATERIAL ARE INCLUDED ON OR EXEMPTED FROM

LISTING ON THE TSCA INVENTORY.

COPYRIGHT GENERAL ELECTRIC CO.

#### Tarr, Inc

2429 N Borthwick PO Box 12570 Portland, Oregon 97212-0570 Phone 503-288-5294 800-422-5069 Fax 503-288-0421



MARISC 000



MARINE SALVAGE CONSORTIUM 6211 NE ENSIGN PORTLAND, OR 972173930

IN ACCORDANCE WITH THE HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) FROM THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), WE ARE ENCLOSING A MATERIAL SAFETY DATA SHEET (MSDS) FOR THE FOLLOWING TARR PRODUCT(S):

Code

Description

ATF

CHEV ATF DEXRON III

Ārizona -

4115 W Turney Avenue Phoenix, Arizona 85019 Phone 602-233-2000 800-350-2436 Fax 602-233-9190

THE MSDS SHOULD BE USED TO EDUCATE AND TRAIN YOUR EMPLOYEES ON THE PROPERTIES, HAZARDS, AND PROTECTION REQUIREMENTS RELATED TO THE PRODUCTS WHICH YOU PURCHASE FROM TARR, INC. IF YOU NEED ANY FURTHER MSDS', PLEASE CONTACT RACHEAL KERSEY AT (503) 821-8235.

SINCERELY YOURS,

Seattle

4510 B Street NW Auburn, Washington 98001 Phone 206-859-2979 Fax 206-859-3020

PATRICIA RODABAUGH COMPLIANCE MANAGER

Vancouver

7208 NE St Johns Road Vancouver, Washington 98665 Phone 360-694-2521 rom Portland 503-239-1566

ax 360-737-8537





## **Material Safety Data Sheet**

24-Hour Emergency Telephone Numbers

HEALTH: ChevronTexaco Emergency Information Center (800) 231-0623 or (510) 231-0623

TRANSPORTATION: CHEMTREC (800) 424-9300 or (703) 527-3887

Emergency Information Centers are located in the U.S.A. International collect calls accepted.

#### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

#### CHEVRON Automatic Transmission Fluid DEXRON®-III/Mercon®

Product Number(s): CPS226502

Synonyms: Automatic Transmission Fluid, DEXRON® - III, MERCON®

Company Identification ChevronTexaco Global Lubricants 6001 Bollinger Canyon Rd. San Ramon, CA 94583 United States of America www.chevron-lubricants.com Product Information

MSDS Requests: (800) 414-6737 Product Information: (800) LUBE TEK email: lubemsds@chevron.com

#### SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Distillates, hydrotreated heavy paraffinic	64742-54-7	75 - 89.99 %weight
Additives	Mixture	10 - 19.9 %weight

SECTION 3 HAZARDS IDENTIFICATION		· 11 . C. Zaliza	

#### **EMERGENCY OVERVIEW**

Red oily liquid.

#### IMMEDIATE HEALTH EFFECTS

Eye: Not expected to cause prolonged or significant eye irritation.

Skin: Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin. High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfigurement or amputation of the affected part. Ingestion: Not expected to be harmful if swallowed.

Inhalation: Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause

Revision Number: 29 Revision Date: 08/05/2002 1 of 7

CHEVRON Automatic Transmission Fluid DEXRON®-II/Mercon® MSDS: 21

From: TARR, INC.

respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

#### SECTION 4 FIRST AID MEASURES

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

**Ingestion:** No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs. Note to Physicians: In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.

#### SECTION 5 FIRE FIGHTING MEASURES

Leaks/ruptures in high pressure system using materials of this type can create a fire hazard when in the vicinity of ignition sources (eg. open flame, pilot lights, sparks, or electric arcs).

#### FIRE CLASSIFICATION:

OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

**NFPA RATINGS:** 

Health: 0

Flammability: 1

Reactivity: 0

#### FLAMMABLE PROPERTIES:

Flashpoint: (Cleveland Open Cup) 352 °F (178 °C) (Min)

Autoignition: NDA

Flammability (Explosive) Limits (% by volume in air): Lower: NA Upper: NA

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

#### PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

**Combustion Products**: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Sulfur, Phosphorus.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

Revision Number: 29 Revision Date: 08/05/2002 2 of 7

CHEVRON Automatic Transmission Fluid DEXRONS-IMMerconS MSDS: 21 Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.

**Spill Management:** Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

#### SECTION 7 HANDLING AND STORAGE

Precautionary Measures: DO NOT USE IN HIGH PRESSURE SYSTEMS in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed. Keep out of the reach of children.

**General Handling Information:** Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating an accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

#### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Special note: Do not use in breathing air apparatus or medical equipment.

#### **ENGINEERING CONTROLS:**

Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

Revision Number: 29 Revision Date: 08/05/2002 3 of 7

CHEVRON Automatic Transmission Fluid DEXRON®-III/Mercon® MSDS : 21 **Eye/Face Protection:** No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield, Viton. Respiratory Protection: No respiratory protection is normally required.

If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

#### Occupational Exposure Limits:

Component	Limit	TWA	STEL	Celling	Notation
Distillates, hydrotreated heavy paraffinic	OSHA_PEL	5 mg/m3			
Distillates, hydrotreated heavy paraffinic	ACGIH_TLV	5 mg/m3	10 mg/m3		

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Appearance and Odor: Red oily liquid.

pH: NA

Vapor Pressure: <0.01 mmHg @ 100 °F

Vapor Density (Air = 1): >1

Boiling Point: >600 °F (>315 C)

Solubility: Soluble in hydrocarbons; insoluble in water

Freezing Point: NA

Melting Point: NA

Specific Gravity: 0.86 @ 15.6 °C / 15.6 °C Viscosity: 6.8 cSt @ 100 °C (Min)

#### SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and

handling conditions of temperature and pressure.

Incompatibility With Other Materials: May react with strong oxidizing agents, such as chlorates, nitrates,

peroxides, etc.

Hazardous Decomposition Products: None known (None expected)
Hazardous Polymerization: Hazardous polymerization will not occur.

#### SECTION 11 TOXICOLOGICAL INFORMATION

#### **IMMEDIATE HEALTH EFFECTS**

Eye Irritation: The eye irritation hazard is based on evaluation of data for similar materials or product components.

Revision Number: 29 Revision Date: 08/05/2002 4 of 7

CHEVRON Automatic Transmission Fiuld DEXRONS-III/Mercon® MSDS: 21

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**Skin Irritation:** The skin irritation hazard is based on evaluation of data for similar materials or product components.

Skin Sensitization: No product toxicology data available.

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

#### ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

#### SECTION 12 ECOLOGICAL INFORMATION

#### **ECOTOXICITY**

The toxicity of this material to aquatic organisms has not been evaluated. Consequently, this material should be kept out of sewage and drainage systems and all bodies of water.

#### **ENVIRONMENTAL FATE**

This material is not expected to be readily biodegradable.

#### SECTION 13 DISPOSAL CONSIDERATIONS

Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

#### SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

**DOT Shipping Name: NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION** 

**UNDER 49 CFR** 

**DOT Hazard Class: NOT APPLICABLE** 

**DOT Identification Number: NOT APPLICABLE** 

**DOT Packing Group: NOT APPLICABLE** 

Additional Information: NOT HAZARDOUS BY U.S. DOT. ADR/RID HAZARD CLASS NOT

APPLICABLE.

#### SECTION 15 REGULATORY INFORMATION

Revision Number: 29 Revision Date: 08/05/2002 5 of 7

CHEVRON Automatic Transmission Fluid DEXRONS-III/Mercon® MSDS: 21 SARA 311/312 CATEGORIES:

Immediate (Acute) Health Effects:
 Delayed (Chronic) Health Effects:
 NO
 Fire Hazard:
 Sudden Release of Pressure Hazard:
 Reactivity Hazard:

**REGULATORY LISTS SEARCHED:** 

4\_I1=IARC Group 1

15=SARA Section 313

4\_I2A=IARC Group 2A

16=CA Proposition 65

4\_I2B=IARC Group 2B

17=MA RTK

05=NTP Carcinogen

18=NJ RTK

06=OSHA Carcinogen

19=DOT Marine Pollutant

09=TSCA 12(b)

20=PARTK

#### CHEMICAL INVENTORIES:

UNITED STATES: All of the components of this material are on the Toxic Substances Control Act (TSCA) Chemical Inventory.

#### **NEW JERSEY RTK CLASSIFICATION:**

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL

(Automatic transmission fluid)

#### WHMIS CLASSIFICATION:

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

#### SECTION 16 OTHER INFORMATION

NFPA RATINGS:

Health: 0

Flammability: 1

Reactivity: 0

HMIS RATINGS:

Health: 1

Flammability: 1

Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

**REVISION STATEMENT:** Changes have been made throghout this Material Safety Data Sheet. Please read the entire document.

#### ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value TWA - Time Weighted Average
STEL - Short-term Exposure Limit PEL - Permissible Exposure Limit
CAS - Chemical Abstract Service Number

NDA - No Data Available NA - Not Applicable

- Less Than or Equal To >= - Greater Than or Equal To

Revision Number: 29 Revision Date: 08/05/2002 6 of 7

CHEVRON Automatic Transmission Fluid DEXRONS-HIMIercon®

MSDS: 21

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1).

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Revision Number: 29 Revision Date: 08/05/2002 7 of 7

CHEVRON Automatic Transmission Fluid DEXRON®-II/Mercon® MSDS: 21

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#### Tarr, Inc

2429 N Borthwick PO Box 12570 Portland, Oregon 97212-0570 Phone 503-288-5294 800-422-5069 Fax 503-288-0421

June 18, 2003 .

MARISC 000



MARINE SALVAGE CONSORTIUM 6211 NE ENSIGN PORTLAND, OR 972173930

IN ACCORDANCE WITH THE HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) FROM THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), WE ARE ENCLOSING A MATERIAL SAFETY DATA SHEET (MSDS) FOR THE FOLLOWING TARR PRODUCT(S):

Code

Description

D40040

CHEV DELO 400 40W

Arizona

4115 W Turney Avenue Phoenix, Arizona 85019 Phone 602-233-2000 800-350-2436 Fax 602-233-9190

THE MSDS SHOULD BE USED TO EDUCATE AND TRAIN YOUR EMPLOYEES ON THE PROPERTIES, HAZARDS, AND PROTECTION REQUIREMENTS RELATED TO THE PRODUCTS WHICH YOU PURCHASE FROM TARR, INC. IF YOU NEED ANY FURTHER MSDS', PLEASE CONTACT DANA WARREN AT (503) 821-8235.

SINCERELY YOURS,

Seattle

4510 B Street NW Auburn, Washington 98001 Phone 206-859-2979 Fax 206-859-3020

PATRICIA RODABAUGH

Vancouver

7208 NE St Johns Road Vancouver, Washington 98665 Phone 360-694-2521 From Portland 503-239-1566 ax 360-737-8537

COMPLIANCE MANAGER





## **Material Safety Data Sheet**

Chevron Delo 8 400 Multigrade

MSDS: 6711 Revision #: 4 Revision Date: /8/16/2002

e: 8/16/2002

Click here to search the product data sheet database

Tarr Codes: D4001540.

D400 10.

D 400 10304

D400 20 a

D40030.

D40040#

D40050 +

## **Material Safety Data Sheet**

24-Hour Emergency Telephone Numbers

HEALTH: ChevronTexaco Emergency Information Center (800) 231-0623 or (510) 231-0623

TRANSPORTATION: CHEMTREC (800) 424-9300 or (703) 527-3887

Emergency Information Centers are located in the U.S.A. International collect calls accepted.

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

#### **CHEVRON Delo® 400**

Product Number(s): CPS235101, CPS235109, CPS235117, CPS235118, CPS235119, CPS235120, CPS235200

Synonyms: CHEVRON Delo® 400 Multigrade SAE 15W-40, CHEVRON Delo® 400 SAE 10W, CHEVRON Delo® 400 SAE 10W-30, CHEVRON Delo® 400 SAE 20, CHEVRON Delo® 400 SAE 30, CHEVRON Delo® 400 SAE 40, CHEVRON Delo® 400 SAE 50

Company Identification
ChevronTexaco Global Lubricants
6001 Bollinger Canyon Rd.
San Ramon, CA 94583
United States of America
www.chevron-lubricants.com

#### **Product Information**

MSDS Requests: (800) 414-6737
Product Information: (800) LUBE TEK
email: lubemsds@chevron.com

#### SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Highly refined mineral oil (C15 - C50)	Mixture	70 - 94,99 %weight

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. Chevron Delo® 400 Multigrade MSDS#6711 Rev#4 (8/16/2002)

rage Z OL /

Zinc dialkyldithiophosphate 68649-42-3 1 - 4.99 %weight

SECTION 3 HAZARDS IDENTIFICATION

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#### **EMERGENCY OVERVIEW**

Dark brown liquid.

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#### **IMMEDIATE HEALTH EFFECTS**

Eye: Not expected to cause prolonged or significant eye irritation.

Skin: Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin.

Ingestion: Not expected to be harmful if swallowed.

Inhalation: Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

#### SECTION 4 FIRST AID MEASURES

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if wom, and flush eyes with water.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice. Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

#### SECTION 5 FIRE FIGHTING MEASURES

#### FIRE CLASSIFICATION:

OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

NFPA RATINGS: Health: 0 Flammability: 1 Reactivity: 0

#### **FLAMMABLE PROPERTIES:**

Flashpoint: (Cleveland Open Cup) 392 °F (200 °C) (Min)

Autoignition: NDA

Flammability (Explosive) Limits (% by volume in air): Lower: NA Upper: NA

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

#### **PROTECTION OF FIRE FIGHTERS:**

Fire Fighting Instructions: This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Nitrogen, Phosphorus, Sulfur.

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### Tarr, Inc

2429 N Borthwick PO Box 12570 Portland, Oregon 97212-0570 Phone 503-288-5294 800-422-5069 Fax 503-288-0421

April 30, 2003

MARISC 000



MARINE SALVAGE CONSORTIUM 6211 NE ENSIGN PORTLAND, OR 972173930

IN ACCORDANCE WITH THE HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) FROM THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), WE ARE ENCLOSING A MATERIAL SAFETY DATA SHEET (MSDS) FOR THE FOLLOWING TARR PRODUCT(S):

Code

Description

D4001540 CHEV DELO 400 15W/40

Arizona

4115 W Turney. Avenue Phoenix, Arizona 85019 Phone 602-233-2000 800-350-2436 Fax 602-233-9190 THE MSDS SHOULD BE USED TO EDUCATE AND TRAIN YOUR EMPLOYEES ON THE PROPERTIES, HAZARDS, AND PROTECTION REQUIREMENTS RELATED TO THE PRODUCTS WHICH YOU PURCHASE FROM TARR, INC. IF YOU NEED ANY FURTHER MSDS', PLEASE CONTACT DANA WARREN AT (503) 821-8235.

SINCERELY YOURS,

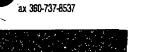
Seattle

4510 B Street NW Auburn, Washington 98001 Phone 206-859-2979 Fax 206-859-3020

PATRICIA RODABAUGH COMPLIANCE MANAGER

Vancouver

7208 NE St Johns Road Vancouver, Washington 98665 Phone 360-694-2521 From Portland 503-239-1566





### SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-

8802 as appropriate or required.

### SECTION 7 HANDLING AND STORAGE

Precautionary Measures: Keep out of the reach of children.

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating an accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### **GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Special note: Do not use in breathing air apparatus or medical equipment.

#### **ENGINEERING CONTROLS:**

Use in a well-ventilated area.

#### PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitnle Rubber, Silver Shield, Viton.

Respiratory Protection: No respiratory protection is normally required.

If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured

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Page 4 or /

concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Component	Limit	AWT	STEL	Ceiling	Notation
Highly refined mineral oil (C15 - C50)	ACGIH_TLV	5 mg/m3	10 mg/m3		
Highly refined mineral oil (C15 - C50)	OSHA_PEL	5 mg/m3			

# SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Appearance and Odor: Dark brown liquid.

pH: NA

Vapor Pressure: <0.01 mmHg @ 100 °F

Vapor Density (Air = 1): >1 Boiling Point: >600 °F (>315 C)

Solubility: Soluble in hydrocarbons; insoluble in water

Freezing Point: NA Melling Point: NA

Specific Gravity: 0.88 - 0.88 @ 15.6 °C / 15.6 °C

Volatile Organic

Compounds (VOC): 1.1 %weight

Viscosity: 5 cSt - 18 cSt @ 100 °C (Min)

### SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Incompatibility With Other Materials: May react with strong oxidizing agents, such as chlorates, nitrates,

peroxides, etc.

Hazardous Decomposition Products: Hydrogen Sulfide (Elevated temperatures)

Hazardous Polymerization: Hazardous polymerization will not occur.

#### SECTION 11 TOXICOLOGICAL INFORMATION

### **IMMEDIATE HEALTH EFFECTS**

Eye Irritation: The eye irritation hazard is based on evaluation of data for similar materials or product components. Skin Irritation: The skin irritation hazard is based on evaluation of data for similar materials or product components. Skin Sensitization: No product toxicology data available.

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

http://library.cbest.chevron.com/lubes/chevmsdsv9.nsf/f2f12b5992bba20488256b4c0074a415/3c. 9/6/2002

### ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if oil is thoroughly removed by washing with soap and water.

### SECTION 12 ECOLOGICAL INFORMATION

### **ECOTOXICITY**

The toxicity of this material to aquatic organisms has not been evaluated. Consequently, this material should be kept out of sewage and drainage systems and all bodies of water.

#### **ENVIRONMENTAL FATE**

This material is not expected to be readily biodegradable.

### SECTION 13 DISPOSAL CONSIDERATIONS

Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods. (See B.C. Reg. GY/92 Waste Management Act; R.R.O. 1990, Reg. 347 General-Waste Management; C.C.SM.c. W40 The Waste Reduction and Prevention Act; N.S. Reg. 51/95 and N.S. Reg. 179/96 for examples of Provincial legislation.)

### SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Name: NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER 49

**DOT Hazard Class: NOT APPLICABLE** 

**DOT Identification Number: NOT APPLICABLE DOT Packing Group: NOT APPLICABLE** 

Additional Information: NOT HAZARDOUS BY U.S. DOT. ADR/RID HAZARD CLASS NOT APPLICABLE.

### SECTION 15 REGULATORY INFORMATION

SARA 311/312 CATEGORIES: 1. Immediate (Acute) Health Effects: NO

> 2. Delayed (Chronic) Health Effects: Fire Hazard:

NO

NO

Sudden Release of Pressure Hazard:

NO

Reactivity Hazard:

NO

### REGULATORY LISTS SEARCHED:

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4\_I1≈IARC Group 1

15=SARA Section 313

4\_I2A=IARC Group 2A

16=CA Proposition 65

4\_I2B=IARC Group 2B

17=MA RTK

05=NTP Carcinogen

18=NJ RTK

06=OSHA Carcinogen

19=DOT Marine Pollutant

09=TSCA 12(b)

20=PARTK

The following components of this material are found on the regulatory lists indicated.

Zinc dialkyldithiophosphate

15

CERCLA REPORTABLE QUANTITIES (RQ)/SARA 302 THRESHOLD PLANNING QUANTITIES (TPQ):

Component	Component RQ	Component TPQ	Product RQ
Zinc dialkyldithiophosphate	1 lbs	None	22 lbs

### **CHEMICAL INVENTORIES:**

CANADA: All the components of this material are on the Canadian DSL or have been notified under the New Substance Notification Regulations, but have not yet been published in the Canada Gazette.

PEOPLE'S REPUBLIC OF CHINA: All the components of this product are listed on the draft Inventory of Existing Chemical Substances in China.

EUROPEAN UNION: All the components of this material are in compliance with the EU Seventh Amendment Directive 92/32/EEC.

JAPAN: All the components of this product are on the Existing & New Chemical Substances (ENCS) inventory in Japan, or have an exemption from listing.

KOREA: All the components of this product are on the Existing Chemicals List (ECL) in Korea.

PHILIPPINES: All the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

UNITED STATES: All of the components of this material are on the Toxic Substances Control Act (TSCA) Chemical Inventory.

### **NEW JERSEY RTK CLASSIFICATION:**

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows:

PETROLEUM OIL (Motor oil)

### WHMIS CLASSIFICATION:

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

#### SECTION 16 OTHER INFORMATION

NFPA RATINGS:

Health: 0

Flammability: 1

Reactivity: 0

HMIS RATINGS:

Health: 1

Flammability: 1

Reactivity: 0

http://library.cbest.chevron.com/lubes/chevmsdsv9.nsf/f2f12b5992bba20488256b4c0074a415/3... 9/6/2002

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*-Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT: Changes have been made throughout this Material Safety Data Sheet. Please read the entire document.

### ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

Threshold Limit Value Time Weighted Average

STEL - Short-term Exposure Limit PEL Permissible Exposure Limit

> Chemical Abstract Service Number CAS

NDA No Data Available NA Not Applicable

Less Than or Equal To Greater Than or Equal To

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1).

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.



# **Material Safety Data Sheet**

Chevron Delog 400 Multigrade

MSDS: 6711 Revision #: 4 Revision Diffe: 8/16/2002

Click here to search the product data sheet database

Tarr Codes: D4001540

D400 10.

D400 1030

D400 20

D40030.

D40040

D40050

# **Material Safety Data Sheet**

24-Hour Emergency Telephone Numbers

HEALTH: ChevronTexaco Emergency Information Center (800) 231-0623 or (510) 231-0623

TRANSPORTATION: CHEMTREC (800) 424-9300 or (703) 527-3887

Emergency Information Centers are located in the U.S.A. International collect calls accepted.

#### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

### **CHEVRON Delo® 400**

Product Number(s): CPS235101, CPS235109, CPS235117, CPS235118, CPS235119, CPS235120, CPS235200
Synonyms: CHEVRON Delo® 400 Multigrade SAE 15W-40, CHEVRON Delo® 400 SAE 10W, CHEVRON Delo® 400 SAE 10W-30, CHEVRON Delo® 400 SAE 20, CHEVRON Delo® 400 SAE 30, CHEVRON Delo® 400 SAE 40, CHEVRON Delo® 400 SAE 50

Company Identification
ChevronTexaco Global Lubricants
6001 Bollinger Canyon Rd.
San Ramon, CA 94583
United States of America
www.chevron-kubricants.com

### **Product Information**

MSDS Requests: (800) 414-6737 Product Information: (800) LUBE TEK email: lubernsds@chevron.com

### SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Highly refined mineral oil (C15 - C50)	Mixture	70 - 94.99 %weight

http://library.cbest.chevron.com/lubes/chevmsdsv9.nsf/f2f12b5992bba20488256b4c0074a415/3c... 9/6/2002

To: MARINE SALVAGE CONSORTIUM

From: TARR, INC.

4-30-2003 11:56am

Chevron Delo® 400 Multigrade MSDS#6711 Rev#4 (8/16/2002)

Page 2 or /

Zinc dialkyldithiophosphate

68649-42-3

1 - 4.99 %weight

### SECTION 3 HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Dark brown liquid.

#### IMMEDIATE HEALTH EFFECTS

Eye: Not expected to cause prolonged or significant eye irritation.

Skin: Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin.

Ingestion: Not expected to be harmful if swallowed.

Inhalation: Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory imitation may include coughing and difficulty breathing.

### SECTION 4 FIRST AID MEASURES

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean

Ingestion: No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice. Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

### SECTION 5 FIRE FIGHTING MEASURES

### FIRE CLASSIFICATION:

OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

NFPA RATINGS:

Health: 0

Flammability: 1

Reactivity: 0

### **FLAMMABLE PROPERTIES:**

Flashpoint: (Cleveland Open Cup) 392 °F (200 °C) (Min)

Autoignition: NDA

Flammability (Explosive) Limits (% by volume in air): Lower: NA Upper: NA

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

### **PROTECTION OF FIRE FIGHTERS:**

Fire Fighting Instructions: This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Nitrogen, Phosphorus, Sulfur.

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### SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-

8802 as appropriate or required.

#### SECTION 7 HANDLING AND STORAGE

Precautionary Measures: Keep out of the reach of children.

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage

systems and bodies of water.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating an accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### **GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Special note: Do not use in breathing air apparatus or medical equipment.

### **ENGINEERING CONTROLS:**

Use in a well-ventilated area.

### PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield, Viton.

Respiratory Protection: No respiratory protection is normally required.

If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured

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concentrations of this material. For air-purifying respirators use a particulate cartridge.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

**Occupational Exposure Limits:** 

Component	Limit	TWA	STEL	Ceiling	Notation
Highly refined mineral oil (C15 - C50)	ACGIH_TLV	5 mg/m3	10 mg/m3	·	
Highly refined mineral oil (C15 - C50)	OSHA_PEL	5 mg/m3			

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Appearance and Odor: Dark brown liquid.

pH: NA

Vapor Pressure: <0.01 mmHg @ 100 °F

Vapor Density (Air = 1): >1 Boiling Point: >600 °F (>315 C)

Solubility: Soluble in hydrocarbons; insoluble in water

Freezing Point: NA Melting Point: NA

Specific Gravity: 0.88 - 0.88 @ 15.6 °C / 15.6 °C

Volatile Organic

Compounds (VOC): 1.1 %weight Viscosity: 5 cSt - 18 cSt @ 100 °C (Min)

### SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Incompatibility With Other Materials: May react with strong oxidizing agents, such as chlorates, nitrates,

peroxides etc.

Hazardous Decomposition Products: Hydrogen Sulfide (Elevated temperatures)

Hazardous Polymerization: Hazardous polymerization will not occur.

#### SECTION 11 TOXICOLOGICAL INFORMATION

#### IMMEDIATE HEALTH EFFECTS

Eye Irritation: The eye irritation hazard is based on evaluation of data for similar materials or product components. Skin Irritation: The skin irritation hazard is based on evaluation of data for similar materials or product components. Skin Sensitization: No product toxicology data available.

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for similar materials or product

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

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### ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if oil is thoroughly removed by washing with soap and water.

#### SECTION 12 ECOLOGICAL INFORMATION

#### **ECOTOXICITY**

The toxicity of this material to aquatic organisms has not been evaluated. Consequently, this material should be kept out of sewage and drainage systems and all bodies of water.

### **ENVIRONMENTAL FATE**

This material is not expected to be readily biodegradable.

### SECTION 13 DISPOSAL CONSIDERATIONS

Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods. (See B.C. Reg. GY/92 Waste Management Act; R.R.O. 1990, Reg. 347 General-Waste Management; C.C.SM.c. W40 The Waste Reduction and Prevention Act; N.S. Reg. 51/95 and N.S. Reg. 179/96 for examples of Provincial legislation.)

### SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Name: NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER 49

CFR

**DOT Hazard Class: NOT APPLICABLE** 

**DOT Identification Number:** NOT APPLICABLE **DOT Packing Group:** NOT APPLICABLE

Additional Information: NOT HAZARDOUS BY U.S. DOT. ADR/RID HAZARD CLASS NOT APPLICABLE.

### SECTION 15 REGULATORY INFORMATION

SARA 311/312 CATEGORIES: 1. Immediate (Acute) Health Effects: NO

2. Delayed (Chronic) Health Effects: NO

3. Fire Hazard: NO

Sudden Release of Pressure Hazard: NO

5. Reactivity Hazard: NO

#### REGULATORY LISTS SEARCHED:

http://library.cbest.chevron.com/lubes/chevmsdsv9.nsf/f2f12b5992bba20488256b4c0074a415/3c.. 9/6/2002

To: MARINE SALVAGE CONSORTIUM

From: TARR, INC.

4-30-2003 12:00pm p. 8 of 9

Chevron Delo® 400 Multigrade MSDS#6711 Rev#4 (8/16/2002)

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4 11=IARC Group 1

15=SARA Section 313

4 I2A=IARC Group 2A

16=CA Proposition 65

4\_I2B=IARC Group 2B

17=MA RTK

05=NTP Carcinogen

18≂NJ RTK

06=OSHA Carcinogen

19=DOT Marine Pollutant

09=TSCA 12(b)

20=PARTK

The following components of this material are found on the regulatory lists indicated.

Zinc dialkyldithiophosphate

15

CERCLA REPORTABLE QUANTITIES(RQVSARA 302 THRESHOLD PLANNING QUANTITIES(TPQ):

Component	Component RQ	Component TPQ	Product RQ
Zinc dialkyldithiophosphate	1 lbs	Nane	22 lbs

### **CHEMICAL INVENTORIES:**

CANADA: All the components of this material are on the Canadian DSL or have been notified under the New Substance Notification Regulations, but have not yet been published in the Canada Gazette.

PEOPLE'S REPUBLIC OF CHINA: All the components of this product are listed on the draft inventory of Existing Chemical Substances in China.

EUROPEAN UNION: All the components of this material are in compliance with the EU Seventh Amendment Directive 92/32/EEC.

JAPAN: All the components of this product are on the Existing & New Chemical Substances (ENCS) inventory in Japan, or have an exemption from listing.

KOREA. All the components of this product are on the Existing Chemicals List (ECL) in Korea.

PHILIPPINES: All the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

UNITED STATES: All of the components of this material are on the Toxic Substances Control Act (TSCA) Chemical Inventory.

### **NEW JERSEY RTK CLASSIFICATION:**

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A, 34:5A-1 et. seq., the product is to be identified as follows:

PETROLEUM OIL (Motor oil)

### WHMIS CLASSIFICATION:

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

### SECTION 16 OTHER INFORMATION

NFPA RATINGS:

Health: 0

Flammability: 1

Reactivity: 0

HMIS RATINGS:

Health: 1

Flammability: 1

Reactivity: 0

http://library.cbest.chevron.com/lubes/chevmsdsv9.nsf/f2f12b5992bba20488256b4c0074a415/3... 9/6/2002

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*-Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT: Changes have been made throughout this Material Safety Data Sheet. Please read the entire document.

### ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

Threshold Limit Value

TWA Time Weighted Average

STEL -

Short-term Exposure Limit

PEL Permissible Exposure Limit

CAS Chemical Abstract Service Number

NDA No Data Available NA Not Applicable

Less Than or Equal To

Greater Than or Equal To

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1).

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

### TARR CODE: OGLAERO

# Material Safety Data Sheet

### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

# Chevron Open Gear Grease - Aerosol

Product Use: Grease

Product Number(s): CPS230001

Company Identification

ChevronTexaco Global Lubricants

6001 Bollinger Canyon Rd.
San Ramon, CA 94583
United States of America
www.chevron-lubricants.com

### **Transportation Emergency Response**

CHEMTREC: (800) 424-9300 or (703) 527-3887

**Health Emergency** 

ChevronTexaco Emergency Information Center: Located in the USA. International collect calls accepted.

(800) 231-0623 or (510) 231-0623

### Product Information

ail: lubemsds@chevrontexaco.com coduct Information: (800) LUBE TEK MSDS Requests: (800) 414-6737

### SECTION 2 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Asphalt	8052-42-4	30 - 40 %weight
Heptane	142-82-5	20 - 30 %weight
Molybdenum disulphide	1317-33-5	1 - 5 %weight
Graphite	7782-42-5	1 - 5 %weight
Propellant :		20 - 30 %weight
Propane	74-98-6	< 30 %weight
rtane	106-97-8	< 30 %weight
obutane	75-28-5	< 30 %weight

Material Safety Data Sheet

TARR CODE: OGLAERO

### SECTION 3 HAZARDS IDENTIFICATION

# \*

### **EMERGENCY OVERVIEW**

- EXTREMELY FLAMMABLE AEROSOL
- CAUSES EYE IRRITATION

### IMMEDIATE HEALTH EFFECTS

Eye: Contact with the eyes causes irritation. Symptoms may include pain, tearing, reddening, swelling and impaired vision.

**Skin:** Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin.

Ingestion: Not expected to be harmful if swallowed.

Inhalation: Intentional misuse by deliberately inhaling this material may be harmful or fatal. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing. Breathing this material at concentrations above the recommended exposure limits may cause central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion, or disorientation. At extreme osures, central nervous system effects may include respiratory depression, tremors or convulsions, so of consciousness, coma or death.

### **SECTION 4 FIRST AID MEASURES**

Eye: Flush eyes with water immediately while holding the eyelids open. Remove contact lenses, if worn, after initial flushing, and continue flushing for at least 15 minutes. Get medical attention if irritation persists. Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, apply a waterless hand cleaner, mineral oil, or petroleum jelly. Then wash with soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

**Ingestion:** No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

Inhalation: Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue.

### **SECTION 5 FIRE FIGHTING MEASURES**

### **EIRE CLASSIFICATION:**

HA Classification (29 CFR 1910.1200): Flammable aerosol.

NFPA RATINGS: Health: 1 Flammability: 4 Reactivity: 0

-114-

Material Safety Data Sheet

FLAMMABLE PROPERTIES:

Flashpoint: (Tagliabue Closed Cup ASTM D56) -97 °C (-143 °F)

Autoignition: 404 °C (759 °F)

mmability (Explosive) Limits (% by volume in air): Lower: 1.8 Upper: 9.5

EXTINGUISHING MEDIA: Dry Chemical, CO2, AFFF Foam or alcohol resistant foam.

### PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Nitrogen.

TARR CODE: OGLAERO

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in the vicinity of the released aerosol.

Spill Management: Clean up spills immediately, observing precautions in Exposure Controls/Personal Protection section.

Reporting: Report spills to local authorities as appropriate or required.

### SECTION 7 HANDLING AND STORAGE

Precautionary Measures: This material presents a fire hazard. It can catch fire and burn so vigorously and persistently that it creates a serious hazard. Do not breathe vapor or fumes. Do not get in eyes.

neral Handling Information: Avoid contaminating soil or releasing this material into sewage and inage systems and bodies of water.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.

General Storage Information: DO NOT USE OR STORE near heat, sparks, flames, or hot surfaces. USE AND STORE ONLY IN WELL VENTILATED AREA. Keep container closed when not in use. Container Warnings: Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### GENERAL CONSIDERATIONS:

nsider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user

Material Safety Data Sheet TARR CODE: OGLAERO

should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

### GINEERING CONTROLS:

a process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits.

### PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: Wear protective equipment to prevent eye contact. Selection of protective equipment may include safety glasses, chemical goggles, face shields, or a combination depending on the work operations conducted.

Skin Protection: Wear protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Suggested materials for protective gloves include: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: Nitrile Rubber, Viton.

Respiratory Protection: Determine if airborne concentrations are below the recommended occupational exposure limits for jurisdiction of use. If airborne concentrations are above the acceptable limits, wear an approved respirator that provides adequate protection from this material, such as: Air-Purifying Respirator for Organic Vapors, or Supplied-Air Respirator.

If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.

a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not vide adequate protection.

### Occupational Exposure Limits:

Component	Agency	TWA	STEL	Ceiling	Notation
Asphalt	ACGIH	.5 mg/m3	-	-	-
Butane	ACGIH	800 ppm (weight)		-	-
Graphite	ACGIH	2 mg/m3	-	-	-
Graphite	OSHA Z-1	5 mg/m3	-		-
Heptane	ACGIH	400 ppm (weight)	500 ppm (weight)	-	
Heptane	OSHA Z-1	2000 mg/m3	-	<b>–</b>	-
Highly refined mineral oil (C15 - C50)	ACGIH	5 mg/m3	10 mg/m3	-	-
Highly refined mineral oil (C15 - C50)	OSHA Z-1	5 mg/m3		-	-
Propane	ACGIH	1000 ppm	-	-	<b>-</b>
Propane	OSHA Z-1	1800 mg/m3	<b>–</b>	<b>—</b>	-

The ACGIH TLV is 0.5 mg/m3 as the benzene extractable portion of the inhalable fraction of asphalt fume. The TLV may also be determined by unspecified 'equivalent' methods.

### JECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Material Safety Data Sheet TARR CODE: OGLAERO

Attention: the data below are typical values and do not constitute a specification.

Color: Black

vsical State: Semi-solid

or: Solvent pH: Not Applicable

Vapor Pressure: 75 psi (Max) Vapor Density (Air = 1): >1

Boiling Point: 40°C (104°F) - 145°C (293°F)

Solubility: Negligible

Freezing Point: Not Applicable

Density: 0.88

Viscosity: No data available

Evaporation Rate: <1

### SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Incompatibility With Other Materials: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Hazardous Decomposition Products: None known (None expected)
Hazardous Polymerization: Hazardous polymerization will not occur.

### ECTION 11 TOXICOLOGICAL INFORMATION

### IMMEDIATE HEALTH EFFECTS

Eye Irritation: The eye irritation hazard is based on evaluation of data for similar materials or product components.

**Skin Irritation:** The skin irritation hazard is based on evaluation of data for similar materials or product components.

Skin Sensitization:

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

### ADDITIONAL TOXICOLOGY INFORMATION:

There is concern about the carcinogenicity of chemical compounds found in asphalts. The International Agency for Research on Cancer (IARC) reviewed the carcinogenic potential of asphalts in 1985 and again in 1987. At that time, they concluded there was inadequate evidence to decide that asphalts were carcinogenic to humans. Overall, findings from health monitoring studies of asphalt workers are not

clusive. However, asphalt fume condensates and certain chemical components of asphalt fume have in shown to cause cancer in mice when repeatedly applied to the skin and allowed to remain on the skin for a prolonged period of time. In addition, asphalt fume condensates have been shown to be weakly positive in Ames mutagenicity tests. Skin contact and breathing of fumes, mists and vapors should be

Material Safety Data Sheet

TARR CODE: OGLAERO

reduced to a minimum.

This product contains butane. An atmospheric concentration of 100,000 ppm (10%) butane is not ceably irritating to the eyes, nose or respiratory tract, but will produce slight dizziness in a few minutes c, exposure. No chronic systemic effect has been reported from occupational exposure.

This product contains isobutane. Isobutane has been shown to increase airway resistance by bronchioconstriction and decrease pulmonary compliance and tidal volume (difficulty in breathing). Air containing 27% isobutane was found to decrease respiratory rate and proved to be fatal to rats.

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

### SECTION 12 ECOLOGICAL INFORMATION

OTOXICITY

e toxicity of this material to aquatic organisms has not been evaluated. Consequently, this material should be kept out of sewage and drainage systems and all bodies of water.

### **ENVIRONMENTAL FATE**

This material is not expected to be readily biodegradable.

### SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

### SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous ods Regulations, for additional description requirements (e.g., technical name) and mode-specific or ntity-specific shipping requirements.

DOT Shipping Description: AEROSOLS, 2.1, UN1950, LIMITED QUANTITIES

TARR CODE: OGLAERO

### ICAO/IATA Shipping Description: AEROSOL, FLAMMABLE, 2.1, UN1950



EPCRA 311/312 CATEGORIES: 1. Immediate (Acute) Health Effects: YES

2. Delayed (Chronic) Health Effects: NO

3. Fire Hazard: YES

4. Sudden Release of Pressure Hazard: YES

5. Reactivity Hazard: NO

### REGULATORY LISTS SEARCHED:

01-1=IARC Group 1

03=EPCRA 313

01-2A=IARC Group 2A

04=CA Proposition 65

01-2B=IARC Group 2B

05=MA RTK

02=NTP Carcinogen

06=NJ RTK

07=PA RTK

The following components of this material are found on the regulatory lists indicated.

**Asphalt** 

05, 06, 07

Butane

05, 06, 07

aphite

05, 07

eptane

05, 06, 07

Isobutane

05, 06, 07

Molybdenum disulphide 05, 06

00, 00, 01

Propane

05, 06, 07

### CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), EINECS (European Union), IECSC (China), KECI (Korea), PICCS (Philippines), TSCA (United States).

One or more components does not comply with the following chemical inventory requirements: ENCS (Japan).

### **NEW JERSEY RTK CLASSIFICATION:**

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Grease)

### WHMIS CLASSIFICATION:

ss B, Division 5: Flammable Aerosols

ass D. Division 2, Subdivision B: Toxic Material -

Skin or Eye Irritation

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### SECTION 16 OTHER INFORMATION

PA RATINGS: Health: 1 Flammability: 4 Reactivity: 0

HMIS RATINGS: Health: 1 Flammability: 4 Reactivity: 0 PPE: C

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

### LABEL RECOMMENDATION:

Label Category: AEROSOL 1

**REVISION STATEMENT:** This revision updates the following sections of this Material Safety Data Sheet:

1-16

Revision Date: 07/16/2004

### ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average		
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit		
	CAS - Chemical Abstract Service Number		
ncGIH - American Conference of Government Industrial Hygienists	IMO/IMDG - International Maritime Dangerous Goods Code		
API - American Petroleum Institute	MSDS - Material Safety Data Sheet		
CVX - ChevronTexaco	NFPA - National Fire Protection Association (USA)		
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)		
IARC - International Agency for Research on Cancer	OSHA - Occupational Safety and Health Administration		

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the ChevronTexaco Energy Research & Technology Company, 100 Chevron Way, Richmond, California 94802.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.





### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

### Chevron RPM® Universal Gear Lubricant

Product Number(s): CPS225039, CPS225040

Synonyms: Chevron RPM® Universal Gear Lubricant SAE 80W-90, Chevron RPM® Universal Gear Lubricant

SAE 85W-140

Company Identification

ChevronTexaco Global Lubricants

6001 Bollinger Canyon Rd. San Ramon, CA 94583

United States of America

www.chevron-lubricants.com

Transportation Emergency Response

CHEMTREC: (800) 424-9300 or (703) 527-3887

Health Emergency

Chevron exaco Emergency Information Center: Located in the USA. International collect calls accepted (800)

231-0623 of (510) 231-0623

**Product Information** 

email: lubemsds@chevron.com Product Information: (800) LUBE TEK MSDS Requests: (800) 414-6737

### SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT	
Non-hazardous additive blend in refined oil	Mixture	100 %weight	

### SECTION 3 HAZARDS IDENTIFICATION

### **IMMEDIATE HEALTH EFFECTS**

Eye: Not expected to cause prolonged or significant eye irritation.

Skin: Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin.

Ingestion: Not expected to be harmful if swallowed.

Inhalation: Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

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### SECTION 4 FIRST AID MEASURES

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly

Ingestion: No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs,

### SECTION 5 FIRE FIGHTING MEASURES

### FIRE CLASSIFICATION:

OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

**NFPA RATINGS:** 

Health: 0

Flammability: 1

Reactivity: 0

FLAMMABLE PROPERTIES:

Flashpoint: (Cleveland Open Cup) 180 °C (356 °F) (Min)

Autoignition: NDA

Flammability (Explosive) Limits (% by volume in air): Lower: NA Upper: NA

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

#### PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. 
Combustion may form oxides of: Phosphorus, Sulfur.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

### SECTION 7 HANDLING AND STORAGE

Precautionary Measures: Keep out of the reach of children.

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge

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and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

#### **ENGINEERING CONTROLS:**

Use in a well-ventilated area.

#### PERSONAL PROTECTIVE EQUIPMENT

**Eye/Face Protection:** No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield, Viton. Respiratory Protection: No respiratory protection is normally required.

If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

#### Occupational Exposure Limits:

Component	Agency	TWA	STEL	Ceiling	Notation
Non-hazardous additive blend in refined oil	ACGIH	5 mg/m3	10 mg/m3		
Non-hazardous additive blend in refined oil	OSHA Z-1	5 mg/m3			

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Brown

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Physical State: Liquid Odor: Petroleum odor

pH: NA

**Vapor Pressure:** <0.01 mmHg @ 37.8°C (100°F)

Vapor Density (Air = 1): >1 Boiling Point: >371°C (699.8°F)

Solubility: Soluble in hydrocarbons; insoluble in water

Freezing Point: NA Melting Point: NA

Specific Gravity: 0.88 - 0.91 @ 15.6°C (60.1°F) / 15.6°C (60.1°F)

Viscosity: 13.7 cSt @ 100°C (212°F) (Min)

### SECTION 10 STABILITY AND REACTIVITY

**Chemical Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Incompatibility With Other Materials:** May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Hazardous Decomposition Products: Hydrogen Sulfide (Temperatures >149 °F (65 °C))

Hazardous Polymerization: Hazardous polymerization will not occur.

### SECTION 11 TOXICOLOGICAL INFORMATION

#### **IMMEDIATE HEALTH EFFECTS**

Eye Irritation: The eye irritation hazard is based on evaluation of data for similar materials or product components.

**Skin Irritation:** The skin irritation hazard is based on evaluation of data for similar materials or product components.

Skin Sensitization: No product toxicology data available.

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.

**Acute Inhalation Toxicity:** The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

### ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

### SECTION 12 ECOLOGICAL INFORMATION

### **ECOTOXICITY**

The toxicity of this material to aquatic organisms has not been evaluated. Consequently, this material should be kept out of sewage and drainage systems and all bodies of water.

### **ENVIRONMENTAL FATE**

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This material is not expected to be readily biodegradable.

### SECTION 13 DISPOSAL CONSIDERATIONS

Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

### SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

**DOT Shipping Name: NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER 49** 

**CFR** 

**DOT Hazard Class: NOT APPLICABLE** 

**DOT Identification Number: NOT APPLICABLE** 

**DOT Packing Group: NOT APPLICABLE** 

Additional Information: NOT HAZARDOUS BY U.S. DOT. ADR/RID HAZARD CLASS NOT APPLICABLE.

IMO/IMDG Shipping Name: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORTATION UNDER

THE IMDG CODE

IMO/IMDG Hazard Class: NOT APPLICABLE

IMO/IMDG Identification Number: NOT APPLICABLE

IMO/IMDG Packing Group: NOT APPLICABLE

### SECTION 15 REGULATORY INFORMATION

**EPCRA 311/312 CATEGORIES:** 

1. Immediate (Acute) Health Effects:

NO

Delayed (Chronic) Health Effects:

Fire Hazard:

NO NO

Sudden Release of Pressure Hazard:

NO

Reactivity Hazard:

NO

#### REGULATORY LISTS SEARCHED:

01-1=IARC Group 1

03=EPCRA 313

01-2A=IARC Group 2A

04=CA Proposition 65

01-2B=IARC Group 2B

05=MA RTK

02=NTP Carcinogen

06=NJ RTK

07=DOT Marine Pollutant 08=PA RTK

No components of this material were found on the regulatory lists above.

### CHEMICAL INVENTORIES:

AUSTRALIA: All the components of this material are listed on the Australian Inventory of Chemical Substances

CANADA: All the components of this material are on the Canadian Domestic Substances List (DSL).

EUROPEAN UNION: All the components of this material are in compliance with the EU Seventh Amendment Directive 92/32/EEC.

JAPAN: All the components of this product are on the Existing & New Chemical Substances (ENCS) inventory in Japan, or have an exemption from listing.

KOREA: All the components of this product are on the Existing Chemicals List (ECL) in Korea.

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PHILIPPINES: All the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

UNITED STATES: All of the components of this material are on the Toxic Substances Control Act (TSCA) Chemical Inventory.

#### **NEW JERSEY RTK CLASSIFICATION:**

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Gear oil)

#### WHMIS CLASSIFICATION:

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

### SECTION 16 OTHER INFORMATION

NFPA RATINGS:

Health: 0

Flammability: 1

Reactivity: 0

HMIS RATINGS:

Health: 1

Flammability: 1

Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

**REVISION STATEMENT:** This revision updates the following sections of this Material Safety Data Sheet: 1, 2, 5, 8, 9, 11, 14, 15

### ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value STEL - Short-term Exposure Limit

TWA - Time

Time Weighted Average Permissible Exposure Limit

CVX - ChevronTexaco

CAS - Chemical Abstract Service Number

NDA - No Data Available

NA - Not Applicable

- Less Than or Equal To

>= - Greater Than or Equal To

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the ChevronTexaco Energy Research & Technology Company, 100 Chevron Way, Richmond, California 94802.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the sultability of the material for his particular purpose.

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### **ITEM: 4ZF44 - GREASE AUTOMOTIVE**

### MATERIAL CALETY DATA CHEET (MCDC)

PICK_REQ: 1129482439 MATERIAL SAFETY I	DATA SHEET (MSDS) MSDS: A4969
This MSDS should be attached or kept with the r	espective product with which it is associated.
TAL SAFETY DATA SHEET - A4969	######################################
ciated Grainger Item: 4ZF44 - GREASE AUTOMOTIVE	UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE.  COMBUSTION PRODUCTS:
530550-00 MOBILGREASE XHP 222 SPECIAL	FUMES, SMOKE, CARBON MONOXIDE, SULFUR OXIDES, ALDEHYDES AND OTHER DECOMPOSITION PRODUCTS, IN THE CASE OF INCOMPLETE COMBUSTION.
material safety data bulletin	FLASH POINT C (F): >204 (400) (ESTIMATED FOR OIL, ASIM D-92 (COC)).
1 2000	FLAMMABLE LIMITS (APPROX. VOL. IN AIR) -
1. PRODUCT AND COMPANY IDENTIFICATION	LEL: NE UEL: NE
PRODUCT NAME: MOBILGREASE XHP 222 SPECIAL	NFPA HAZARD ID:
EXCOMOBIL CORPORATION	HEALTH: 0 FLAMMABILITY: 1
3225 GALLOWS RD: FAIRFAX, VA 22037	REACTIVITY: 0
24 - HOUR HEALTH AND SAFFTY EMERGENCY (CALL COLLECT): 609-737-4411	6. ACCIDENTAL RELEASE MEASURES
24 - HOUR TRANSPORTATION EMERGENCY:	NOTIFICATION PROCEDURES: REPORT SPILLS/RELEASES AS REQUIRED TO APPROPRIATE AUTHORITIES, U.S. COAST
(PRIMARY) CHEMTREC: 800-424-9300 (SECONDARY): 281-834-3296	REPORT SPILLS/RELEASES AS REQUIRED TO APPROPRIATE AUTHORITIES, U.S. COAST GUARD AND EPA REGULATIONS REQUIRE IMMEDIATE REPORTING OF SPILLS/RELEASES THAT COULD REACH ANY WATERWAY INCLUDING INTERMITTENT DRY CREEKS. REPORT
PRODUCT AND TECHNICAL INFORMATION:	SPILL/RELEASE TO CLAST GUARD NATIONAL RESPONSE CONTER TOLL FREE NUMBER (800) 424-8802. IN CASE OF ACCIDENT OR ROAD SPILL NOTIFY CHEMITEC (800) 424-9300.
LUBRICANTS AND SPECIALTIES:	PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:
800-443-9966	LAND SPILL:
FUELS PRODUCTS: 800-947-9147	SHUT OFF SOURCE TAKING NORMAL SAFETY PRECAUTIONS. TAKE MEASURES TO MINIMI THE EFFECTS ON GROUND WATER. RECOVER BY PUMPING OR CONTAIN SPILLED MATERIAL
MSDS FAX ON DEMAND: 613-228-1467	WITH SAND OR OTHER SUITABLE ABSORBENT AND REMOVE MECHANICALLY INTO CONTAINERS. IF NECESSARY, DISPOSE OF ADSORBED RESIDUES AS DIRECTED IN
MSDS INTERNET WEBSITE: HTTP://EMMSDS.IHSSOLUTIONS.COM/	SECTION 13.
2. COMPOSITION/INFORMATION ON INCREDIENTS	WATER SPILL: CONFINE THE SPILL IMMEDIATELY WITH BOOMS. WARN OTHER SHIPS IN THE VICINITY.
CHEMICAL NAMES AND SYNONYMS: SEVERE TREAT MIN. OILS & ADDITIVES	NOTIFY PORT AND OTHER RELEVANT AUTHORITIES. REMOVE FROM THE SURFACE BY SKIMMING OR WITH SUITABLE ABSORBENTS. IF PERMITTED BY REGULATORY AUTHORITIES
GLOBALLY REPORTABLE MSDS INCREDIENTS:	THE USE OF SUITABLE DISPERSANTS SHOULD BE CONSIDERED WHERE RECOMMENDED IN LOCAL OIL SPILL PROCEDURES.
SUBSTANCE NAME APPROX. WT%	ENVIRONMENTAL PRECAUTIONS:
ZINC DIALKYL DITHIOPHOSPHATE 1-5	PREVENT MATERIAL FROM ENTERING SEMERS, WATER SOURCES OR LOW LYING AREAS; ADVISE THE RELEVANT AUTHORITIES IF IT HAS, OR IF IT CONTAMINATES
(68649-42-3) SEE SECTION 8 FOR EXPOSURE LIMITS (IF APPLICABLE).	SOIL/VEGETATION. PERSONAL PRECAUTIONS: SEE SECTION 8
SEE SECTION 6 FOR EXPOSURE LIMITS (IF APPLICABLE).	PERSONALI PRECAUTIONS: SEE SECTION 6
3. HAZARDS IDENTIFICATION —	7. HANDLING AND STORAGE
R NORMAL CONDITIONS OF USE, THIS PRODUCT IS NOT CONSIDERED HAZARDOUS ROUNG TO REGULATORY GUIDELINES (SEE SECTION 15).	HANDLING: HIGH PRESSURE INJECTION UNDER THE SKIN MAY OCCUR DUE TO THE RUPTURE OF
GENCY OVERVIEW: GRAY TO BLACK GREASE.	PRESSURIZED LINES. ALWAYS SEEK MEDICAL ATTENTION. NO SPECIAL PRECAUTIONS ARE NECESSARY BEYONDNORMAL GOOD HYGIENE PRACTICES. SEE SECTION 8 FOR
DOT ERG NO.: NA	ADDITIONAL PERSONAL PROTECTION ADVICE WHEN HANDLING THIS PRODUCT.
POTENTIAL HEALTH EFFECTS: UNDER NORMAL CONDITIONS OF INTENDED USE, THIS PRODUCT DOES NOT POSE A RISK TO HEALTH. EXCESSIVE EXPOSURE MAY RESULT IN EYE, SKIN OR RESPIRATORY	STORAGE: KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT STORE IN OPEN OR UNLABELIED CONTAINERS. STORE AWAY FROM STRONG OXIDIZING AGENTS AND COMBUSTIBLE MATERIALS. DO NOT STORE NEAR HEAT, SPARKS, FLAME OR STRONG OXIDIANTS.
IRRITATION.	SPECIAL PRECAUTIONS: PREVENT SMALL SPILLS AND LEAKAGES TO AVOID SLIP HAZARD.
FOR FURTHER HEALTH EFFECTS/TOXICOLOGICAL DATA, SEE SECTION 11.	EMPTY CONTAINER WARNING: EMPTY CONTAINER WARNING: CONTAINERS RETAIN RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS.
4. FIRST AID MEASURES	DO NOT PRESSURIZE, CUT, WELD, ERAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF
EYE CONTACT: FLUSH THOROUGHLY WITH WATER. IF IRRITATION OCCURS, CALL A PHYSICIAN.	IGNITION; THEY MAY EXPLOIS AND CAUSE INJURY OR DEATH. DO NOT ATTEMPT TO REFILL OR CLEAN CONTAINER SINCE RESIDUE IS DIFFICULT TO REMOVE. EMPTY DRU SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY RETURNED TO A
SKIN CONTACT: WASH CONTECT AREAS WITH SOAP AND WATER. REMOVE AND CLEAN OIL SOAKED CLOTHING DALLY AND WASH AFFECTED AREA.	DRIM RECONDITIONER. ALL CONTAINERS SHOULD BE DISPOSED OF IN AN ENVIRONMENTALLY SAFE MANNER AND IN ACCORDANCE WITH GOVERNMENTAL REGULATIONS.
INJECTION INJURY WARNING:	8. EXPOSURE CONTROLS/PERSONAL PROTECTION
IF PRODUCT IS INJECTED INTO OR UNDER THE SKIN, OR INTO ANY PART OF THE BODY, REGARDLESS OF THE APPEARANCE OF THE WOUND OR ITS SIZE, THE INDIVIDUAL SHOULD BE EVALUATED IMMEDIATELY BY A PHYSICIAN AS A SURGICAL EMERGENCY. EVEN THOUGH	OCCUPATIONAL EXPOSURE LIMITS: THIS PRODUCT DOES NOT CONTAIN ANY COMPONENTS WHICH HAVE RECOGNIZED EXPOSU
INITIAL SYMPTOMS FROM HIGH PRESSURE INJECTION MAY BE MINIMAL OR ASSENT, EARLY SURGICAL TREATMENT WITHIN THE FIRST FEW HOURS MAY SIGNIFICANTLY REDUCE	LIMITS.
THE ULTIMATE EXTENT OF INJURY.	VENTILATION: USE ADEQUATE VENTILATION.
INHALATION:	RESPIRATORY PROTECTION: NO SPECIAL RECUIREMENTS UNDER ORDINARY CONDITIONS OF USE AND WITH ADECYPATE
REMOVE FROM FURTHER EXPOSURE. IF RESPIRATORY IRRITATION, DIZZINESS, NAUSEA, OR UNCONSCIOUSNESS OCCURS, SEEK IMMEDIATE MEDICAL ASSISTANCE. IF BREATHING	NO SPECIAL REQUIREMENTS UNDER ORDINARY CONDITIONS OF USE AND WITH ADEQUATE VENTILATION.
HAS STOPPED, ASSIST VENTILATION WITH MECHANICAL DEVICE OR USE MOUTH-TO-MOUTH RESUSCITATION.	EYE PROTECTION: GENERALLY EYE CONTACT IS UNLIKELY WITH THIS TYPE MATERIAL. IF EYE CONTACT IS
INGESTION:	LIKELY, SAFETY GLASSES WITH SIDE SHIELDS OR CHEMICAL TYPE GOGGLES SHOULD BE WORN.
NOT EXPECTED TO BE A PROBLEM. SEEK MEDICAL ATTENTION IF DISCOMFORT OCCURS. DO NOT INDUCE VOMITING.	SKIN PROTECTION:
SO AND DELLOCATED TO SEE ASSESSMENT	IF PROLONGED OR REPEATED SKIN CONFACT IS LIKELY, OIL IMPERVIOUS GLOVES SHOULD BE WORN. GOOD PERSONAL HYGIENE PRACTICES SHOULD ALWAYS BE FOLLOWED.
5. FIRE-FIGHTING MEASURES	THE THE PARTY OF PERSONS INCIDENCE PROPERTY OF PUBLISHED.
EXTENGUISHING MEDIA: CARBON DIOXIDE, FOAM, DRY CHEMICAL AND WATER FOG.	9. PHYSICAL AND CHEMICAL PROPERTIES
AL FIRE FIGHTING PROCEDURES:	TYPICAL PHYSICAL PROPERITES ARE GIVEN BELOW. CONSULT PRODUCT DATA SHEET FOR
OR FOAM MAY CAUSE FROITING, USE WATER TO KEEP FIRE EXPOSED CONTAINERS WATER SPRAY MAY BE USED TO FLUSH SPILLS AWAY FROM EXPOSURE, PREVENT	SPECIFIC DETAILS.
RESEARCH FIRE CONTROL OR DILLUTION FROM ENTERING STREAMS, SEWERS, OR DROJAKING WATER SUPPLY.	APPEARANCE: GREASE

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SPECIAL PROTECTIVE EQUIPMENT: FOR FIRES IN ENCLOSED AREAS, FIRE FIGHTERS MUST USE SELF-CONTAINED BREATHING APPARATUS.

APPEARANCE: GREASE COLOR: GRAY TO BLACK

ODOR: MILD

ODOR THRESHOLD-PPM: NE

pH: NA

BOILING POINT C(F): >316(600)

DROP POINT C(F): >260 (500)

ASH POINT C(F): >204(400) (ESTIMATED FOR OIL, ASTM D-92 (COC))

MABILITY (SOLIDS): NE

J FLAMMABILITY C(F): NA

EXPLOSIVE PROPERTIES: NA

OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-MM HG 20 C: <0.1

VAPOR DENSITY: NE

EVAPORATION RATE: NE

RELATIVE DENSITY, 15/4 C: 0.914

SOLUBILITY IN WATER: NEGLIGIBLE

PARTITION COEFFICIENT: >3.5

VISCOSITY AT 40 C, CST: 220.0

VISCOSITY AT 100 C, CST: >16.0

POUR POINT C(F): NA

FREEZING POINT C(F): NE

VOLATILE ORGANIC COMPOUND: NE

NOTE: MOST PHYSICAL PROPERTIES FOR OIL COMPONENT.

DMSO EXTRACT, IP-346 (WT.%): <3, FOR MINERAL OIL ONLY

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

STABILITY AND REACTIVITY -

STABILITY (THERMAL, LIGHT, ETC.): STABLE.

CONDITIONS TO AVOID: EXTREME HEAT AND HIGH ENERGY SOURCES OF IGNITION.

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS:

QUET DOES NOT DECOMPOSE AT AMBIENT TEMPERATURES.

DOUS POLYMERIZATION: WILL NOT OCCUR.

#### --- 11. TOXICOLOGICAL DATA -

ACTIE TOXICOLOGY:

ORAL TOXICITY (RATS):
PRACTICALLY NON-TOXIC (LD50: GREATER THAN 2000 MG/KG).
BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

DERMAL TOXICITY (RABBITS):
PRACTICALLY NON-TOXIC (LD50: GREATER THAN 2000 MG/KG).
BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION TOXICITY (RATS):
PRACTICALLY NON-TOXIC (LC50: GREATER THAN 5 MG/L).
BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

EYE IRRITATION (RABBITS): PRACTICALLY NON-IRRITATING. (DRAIZE SCORE: GREATER THAN 6 EUT 15 OR LESS). BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION (RABBITS): FRACTICALLY NON-IRRITATING. (PRIMARY IRRITATION INDEX: GREATER THAN 0.5 BUT LESS THAN 3). BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

OTHER ACUTE TOXICITY DATA:
ALTHOUGH AN ACUTE INHALATION STUDY WAS NOT PERFORMED WITH THIS PRODUCT, A
VARIETY OF MINERAL OILS AND SYNTHETIC PAGE OILS, SUCH AS THOSE IN THIS
PRODUCT HAVE BEEN TESTED. THESE SAMPLES HAD VIRTUALLY NO EFFECT OTHER THAN A
NONSPECIFIC INFLAMMATORY RESPONSE IN THE LUNG TO THE AEROSOLIZED MINERAL

THE PRESENCE OF ADDITIVES IN OTHER TESTED FORMILATIONS (IN APPROXIMATELY THE SAME AMOUNTS AS IN THE PRESENT FORMILATION) DID NOT ALITER THE OBSERVED EFFECTS.

SUBCHRONIC TOXICOLOGY (SUMMARY):
NO SIGNIFICANT ADVERSE EFFECIS WERE FOUND IN STUDIES USING REPEATED DERMAL
APPLICATIONS OF SIMILAR FORMILATIONS TO THE SKIN OF LABORATORY ANIMALS FOR
13 WEEKS AT DOSES SIGNIFICANTLY HIGHER THAN THOSE EXPECTED DURING NORMAL
INDUSTRIAL EXPOSURE. THE ANIMALS WERE EVALUATED EXTENSIVELY FOR EFFECTS OF
EXPOSURE (HEMAIOLOGY, SERUM CHEMISTRY, URINALYSIS, ORGAN WEIGHTS,
MICROSCOPIC EXAMINATION OF TISSUES ETC.)

PRODUCTIVE TOXICOLOGY (SUMMARY):
PRATOGENIC EFFECTS WOULD BE EXPECTED FROM DERMAL EXPOSURE, BASED ON ATORY DEVELOPMENTAL TOXICITY STUDIES OF MAJOR COMPONENTS IN THIS LATION AND/OR MATERIALS OF SIMILAR COMPOSITION.

IC TOXICOLOGY (SUMMARY): CH.\_ IC TOXICOLOGY (SUMMARY):

REFERENCE AND/OR PROLONGED EXPOSURE MAY CAUSE IRRITATION TO THE SKIN, EYES OR RESPIRATORY TRACT. FOR MINERAL BASE OILS: BASE OILS IN THIS PRODUCT ARE SEVERELY SOLVENT REFINED AND/OR SEVERELY HYDROTREATED. CHRONIC MOUSE SKIN PAINTING STUDIES OF SEVERELY TREATED OILS SHOWED NO EVIDENCE OF CARCINGENIC EFFECTS. THESE RESULTS ARE CONFIRMED ON A CONTINUING BASIS USING VARIOUS SCREENING METHODS SUCH AS MODIFIED AMES TEST: 1P-346, AND/OR OTHER ANALYTICAL METHODS. FOR SYNTHETIC BASE OILS: THE BASE OILS IN THIS PRODUCT HAVE BEEN TESTED IN THE AMES ASSAY AND OTHER TESTS OF MUTAGENICITY WITH NEGATIVE RESULTS. THESE BASE OILS ARE NOT EXPECTED TO BE CARCINOGENIC WITH CHRONIC DERMAL EXPOSURES.

SENSITIZATION (SUMMARY):
NOT EXPECTED TO BE SENSITIZING BASED ON TESTS OF THIS PRODUCT, COMPONENTS, OR SIMILAR PRODUCTS.

- 12. ECOLOGICAL INFORMATION -

ENVIRONMENTAL FATE AND EFFECTS:
THIS ENVIRONMENTAL ASSESSMENT WAS CONDUCTED USING INFORMATION ON THE
INDIVIDUAL COMPONENTS AS NO TEST DATA WAS AVAILABLE FOR THIS SPECIFIC
FORMULATION.

ECOTOXICITY:
THE MAJOR COMPONENTS
MG/L LOADING, THER
ARE NOT EXPECTED. IBNTS IN THE FORMULATION SHOW NO AQUATIC TOXICITY AT 1000 THEREFORE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

MOBILITY: NOT ESTABLISHED.

PERSISTENCE AND DEGRADABILITY:
THIS PRODUCT IS EXPECTED TO BE INHERENILY BIODEGRADABLE, AS THE PRINCIPAL
COMPONENTS HAVE BEEN SHOWN TO DEGRADE AT SLOW TO MODERATE RATES.

BIOACCUMULATIVE POTENTIAL: NOT ESTABLISHED.

- 13. DISPOSAL CONSIDERATIONS -

DISPOSAL: WASTE DISPOSAL:
PRODUCT IS SUITABLE FOR BURNING IN AN ENCLOSED, CONTROLLED BURNER FOR FUEL,
VALUE, SUCH BURNING MAY BE LIMITED PURSUANT TO THE RESOURCE CONSERVATION AND
RECOVERY ACT. IN ADDITION, THE PRODUCT IS SUITABLE FOR PROCESSING BY AN
APPROVED RECYCLING FACILITY OR CAN BE DISPOSED OF AT AN APPROPRIATE (
GOVERNMENT WASTE DISPOSAL FACILITY. USE OF THESE METHODS IS SUBJECT TO USER
COMPLIANCE WITH APPLICABLE LAWS AND REGULATIONS AND CONSIDERATION OF PRODUCT
CHARACTERISTICS AT TIME OF DISPOSAL.

RCRAINFORMATION:
THE UNISED PRODUCT, IN OUR OPINION, IS NOT SPECIFICALLY LISTED BY THE EPA A
A HAZAROUS WASTE (40 CFR, PART 261D), NOR IS IT FORMILATED TO CONTAIN
MATERIALS WHICH ARE LISTED HAZARDOUS WASTES. IT DOES NOT EXHIBIT THE
HAZARDOUS CHARACTERISTICS OF IGNITIABILITY, CORROSIVITY, OR REACTIVITY. THE
UNUSED PRODUCT IS NOT FORMILATED WITH SUBSTANCES COVERED BY THE TOXICITY
CHARACTERISTIC LEACHING PROCEDURE (TCLP). HOWEVER, USED PRODUCT MAY BE

14. TRANSPORT INFORMATION -

USA DOT: NOT REGULATED BY USA

RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

-15. REGULATORY INFORMATION

US OSHA HAZARD COMMUNICATIONSTANDARD: WHEN USED FOR ITS INTENDED PURPOSES, THIS PRODUCT IS NOT CLASSIFIED AS HAZARDOUS IN ACCORDANCE WITH OSHA 29 CFR 1910.1200.

PRODUCT IS NOT DANGEROUS AS DEFINED BY THE EUROPEAN UNION DANGEROUS SUBSTANCES/PREPARATIONS DIRECTIVES. EU LABELING NOT REQUIRED.

GOVERNMENTAL INVENTORY STATUS: ALL COMPONENTS COMPLY WI WITH TSCA, EINECS/ELINCS AND AICS.

U.S. SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III: THIS PRODUCT CONTAINS NO "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: NONE.

THIS PRODUCT CONTAINS THE FOLLOWING SARA (313) TOXIC RELEASE CHEMICALS:

CAS NUMBER CONC. CHEMICAL NAME

C1-14-ALKYL ESTERS, ZINC SALTS (2:1) (ZDDP) 68649-42-3 1.3%

THE FOLLOWING PRODUCT INGREDIENTS ARE CITED ON THE LISTS BELOW:

CHEMICAL NAME CAS NUMBER LIST CITATIONS LITHIUM HYDROXIDE MONOHYDRATE 1310-66-3 (0.05%)

TRICRESYL PHOSPHATE (>0.01%) 1330-78-5 7440-66-6

ZINC (ELEMENTAL ANALYSIS) (0.18%) LITHIUM-SOAP THICKENER (6.14%) 7620-77-1

28016-00-4 22

ZINC DINONYLNAPHTHALENE SULFONATE (0.40%)

PHOSPHORODITHOIC ACID, O,O-DI C1-14-ALKYL ESTERS, ZINC SALTS (2:1) (ZDDP) (1.29%) 18, 20, 21, 22, 24 68649-42-3

22

FATTY ACIDS, C16-22, LITHIUM SALTS 68783-36-8

REGULATORY LISTS SEARCHED:

1=ACGIH ALL 2=ACGIH A1 3=ACGIH A2

6=IARC C=IARC 8=IARC 2B

CODE KEY: CARC=CARCINOGEN SUS=SUSPECTED CARCINOGEN REPRO=REPRODUCTIVE

~ 16. OTHER INFORMATION

USE: AUTOMOTIVE GREASE

NOTE:

NOTE:
PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES ARE NOT FORMULATED TO CONTAIN PCBS. HEALTH STUDIES HAVE SHOWN THAT MANY HYDROCARBONS POSE POTENTIAL HUMAN HEALTH RISKS WHICH MAY VARY FROM PERSON TO PERSON. INFORMATION PROVIDED ON THIS MSDS REFLECTS INTENDED USE. THIS PRODUCT SHOULD NOT BE USED FOR OTHER APPLICATIONS. IN ANY CASE, THE FOLLOWING ADVICE SHOULD BE CONSIDERED:

INDUSTRIAL LABEL:
UNDER NORMAL CONDITIONS OF INTENDED USE, THIS PRODUCT DOES NOT POSE A RISK
TO HEALTH. EXCESSIVE EXPOSURE MAY RESULT IN EYE, SKIN OR RESPIRATORY
IRRITATION. ALMAYS CRISERVE GOOD HYGIENE MEASURES. FIRST ALD: WASH SKIN WITH
SOAP AND WATER. FLUSH EYES WITH WATER. IF OVERCOME BY FIMES OR VAPOR, REPOVE
TO FRESH AIR. IF INDESTED DO NOT INDUCE VONTING. IF SYMPTOMS PERSIST SEEK
MEDICAL ASSISTANCE. READ AND UNDERSTAND THE MSDS BEFORE USING THIS PRODUCT.

FOR INTERNAL USE ONLY: MHC: 1\* 1\* 1\* 1\* 1\* MPPEC: A TRN: 530550-00 CMCS97: 976870 REQ: US: MARKETING SAFE USE: L

EHS APPROVAL DATE: 21AUG2001

LEGALLY REQUIRED INFORMATION IS GIVEN IN ACCORDANCE WITH APPLICABLE INFORMATION GIVEN HEREIN IS OFFERED IN COOD FAITH AS ACCURATE, BUT WITHOUT APPLICABLE CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR ARE BEYOND OUR CONTROL; ALL RISES OF USE OF THE PRODUCT FOR PARTICULAR FOR HEY THE USER AND WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND ATURE, INCLIDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A ICLIAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. ING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID ATS OR AS EXTENDING ANY LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO ANDLERS AND USERS. USE OR RETRANSMISSION OF THE INFORMATION CONTAINED HEREIN IN ANY OTHER FORMAT THAN THE FORMAT AS PRESENTED IS STRICTLY PROHIBITED. MOBIL WARRANTS THAT THE FORMAT CONTENT OF PRODUCT FORMILAS CONTAINED IN THIS DOCUMENT COMPLY WITH THE LAWS OF ANY OTHER COUNTRY EXCEPT THE UNITED STATES OF AMERICA.

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## ITEM: 4NA76 - Oil Multi Purpose 4 Oz

PICK\_REQ: 1033300054

### **MATERIAL SAFETY DATA SHEET (MSDS)**

MSDS: A6365

INGESTION: IF VICTIM IS CONSCIOUS AND ALERT, GIVE 2 TO 3 CUPS OF MILK OR WATER TO
DRINK, NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL ATTENTION.
TO PHYSICIAN: EMESIS OR LAVAGE IS NOT RECOMMENDED FOR INGESTION OF MINUTE QUANTITIES
OR TASTES OF MOST HYDROCARBONS, MEDICAL OPINION IS DIVIDED FOR LARGER INGESTION. EMESIS OR LAVAGE HAS BEEN RECOMMENDED FOR THOSE PETROLEUM
PRODUCTS WHICH HAVE A HIGH CRAL TOXICITY. GASTRIC LAVAGE WITH A CUFFED ENDOTRACHEAL TUBE IS RECOMMENDED BY SOME PHYSICIANS TO PREVENT ASPIRATION.
INHALATION:
IF IRRITATION OF NOSE OR THROAT DEVELOPS, MOVE AWAY FROM SOURCE OF EXPOSURE AND INTO FRESH AIR. IF IRRITATION PERSISTS, SEEK MEDICAL
ATTENTION. IF VICTIM IS NOT BREATHING OR IF BREATHING DIFFICULTIES DEVELOP, ARTIFICIAL RESPIRATION OR OXYGEN SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. SEEK IMMEDIATE MEDICAL ATTENTION.  OTHER INFORMATION: NONE.
SECTION 5 FIRE FIGHTING MEASURES
FLASH POINT (METHOD): 388 DEG. F / 198 DEG. C (COC)
AUTOIGNITION TEMPERATURE: NOT DETERMINED.
LEL: NOT DETERMINED. UEL: NOT DETERMINED.
FLAMMABILITY CLASSIFICATION: NFPA CLASS IIIB
EXTINGUISHING MEDIA: DRY CHEMICAL, CARBON DIOXIDE (CO2), WATER SPRAY, SAND OR EARTH. WATER AND FOAM MAY CAUSE FROTHING.
HAZARDOUS COMBUSTION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, SMALLER AMOUNTS OF OXIDES OF SULFUR AND NITROGEN.
UNUSUAL FIRE OR EXPLOSION HAZARDS: NONE KNOWN.
FIRE-FIGHTING INSTRUCTIONS/EQUIPMENT:
KEEP PERSONNEL REMOVED AND UPWIND OF ANY FIRE. WEAR FULL FIRE-FIGHTING TURN-OUT GEAR (FULL BUNKER GEAR), AND RESPIRATORY PROTECTION (SCBA). WATER SPRAY MAY BE USEFUL IN MINIMIZING VAPORS AND COOLING CONTAINERS EXPOSED TO HEAT AND FLAME. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES. MOVE UNDAMAGED CONTAINERS FROM FIRE AREA IF POSSIBLE
SECTION 6 ACCIDENTAL RELEASE MEASURES  USE RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). COLLECT LEAKING LIQUID IN SEALABLE CONTAINERS. ABSORB SPILLED LIQUID IN SAND OR INERT ABSORBENT. CONTACT FIRE AUTHORITIES AND APPROPRIATE REGULATORY AGENCIES. IF SPILL OF ANY AMOUNT IS MADE INTO OR UPON U.S. NAVIGABLE WATERS, THE CONTIGUUS ZONE, OR ADJUDINING SHORELINES, NOTIFY COAST GUARD NATIONAL RESPONSE CENTER (800-424-8802).
SECTION 7 HANDLING AND STORAGE
HANDLING PRECAUTIONS: USE RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). WASH
THOROUGHLY AFTER HANDLING.  STORAGE REQUIREMENTS: STORE AWAY FROM INCOMPATIBLE CHEMICALS (SEE SEC. 10). STORE IN A COOL, DRY AREA.
SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION
EYE/FACE PROTECTION: USE APPROVED EYE PROTECTION TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT.
SKIN/HAND PROTECTION: USE IMPERMEABLE GLOVES, SUCH AS RUBBER GLOVES.
RESPIRATORY PROTECTION: IF AIRBORNE CONCENTRATION EXCEEDS RECOMMENDED EXPOSURE LIMITS, A SUITABLE FILTER-TYPE RESPIRATOR SHOULD BE WORN.
OTHER EQUIPMENT: EYE WASH AND SAFETY SHOWER.
ENGINEERING CONTROLS: NORMAL ROOM VENTILATION. LOCAL EXHAUST IN CONFINED AREAS.
ADMINISTRATIVE CONTROLS:
USERS OF THIS PRODUCT MUST BE PROPERLY TRAINED AND QUALIFIED IN ITS USE.
OTHER INFORMATION: IT IS SIXESETED THAT A SOURCE OF CLEAN WATER BE AVAILABLE IN THE WORK AREA FOR FLUSHING EYES AND SKIN. BARRIER CREAMS THAT ARE SPECIFIC FOR
IT IS SUGGESTED THAT A SOURCE OF CLEAN WATER BE AVAILABLE IN THE WORK
IT IS SUGGESTED THAT A SOURCE OF CLEAN WATER BE AVAILABLE IN THE WORK AREA FOR FLUSHING EYES AND SKIN. BARRIER CREAMS THAT ARE SPECIFIC FOR

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SOLUBILITY:

ODOR THRESHOLD (PPM): NOT DETERMINED. SPECIFIC GRAVITY (H2O = 1): 0.88

SKIN CONTACT:
DO NOT USE CASOLINE, THINNERS OR SOLVENTS TO REMOVE PRODUCT FROM SKIN.
WIPE PRODUCT FROM SKIN WITH ABSORBENT CLOTH OR PAPER AND REMOVE
CONTAMINATED CLOTHING. CLEANSE AFFECTED AREAS THOROUGHLY BY WASHING
WITH SOAP AND WATER AND, IF NECESSARY, A WATERLESS SKIN CLEANER. IF

WATER: INSOLUBLE FAT: SOLUBLE.

COEFFICIENT OF WATER/OIL SOLUBILITY: <<1

PARTITION COEFFICIENT (n-OCTANOL/WATER): >>1

pH: NOT APPLICABLE

UNG POINT: NOT DETERMINED.

ING POINT: ABOVE 600 DEG. F / 316 DEG. C

VAPOR PRESSURE (MMHg AT 20 DEG. C): NOT DETERMINED.

VAPOR DENSITY (AIR = 1): >1

EVAPORATION RATE (n-Buac = 1): <1

V.O.C.: 0% (W/W), 0% (V/V), 0 LBS./GAL. (U.S.), 0 KG/L

FLASH POINT (METHOD): (SEE SECTION 5)

AUTOIGNITION TEMPERATURE: (SEE SECTION 5)

FLAMMABILITY CLASSIFICATION: (SEE SECTION 5)

UNUSUAL FIRE OR EXPLOSION HAZARDS: (SEE SECTION 5)

OXIDIZING PROPERTIES: NOT APPLICABLE.

OTHER INFORMATION: NONE.

- SECTION 10 STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NONE KNOWN.

CHEMICALS TO AVOID: STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS (NON-THERMAL): NOT DETERMINED.

- SECTION 11 TOXICOLOGICAL INFORMATION -

SENSITIZATION TO PRODUCT: NOT APPLICABLE

IRRITANCY OF PRODUCT: EYE AND SKIN CONTACT, INHALATION, INGESTION.

REPRODUCTIVE TOXICITY: NOT APPLICABLE.

TERATOGENICITY: NOT APPLICABLE

MUTAGENICITY: NOT APPLICABLE.

FURTHER HAZARD INFORMATION, IF APPLICABLE, MAY BE FOUND IN SECTION 3. COLOGICAL INFORMATION RECARDING INDIVIDUAL INGREDIENTS, IF APPLICABLE, 3E FOUND IN SECTION 2.

- SECTION 12 ECOLOGICAL INFORMATION -

MOBILITY: NOT DETERMINED.

DEGRADABILITY: NOT DETERMINED.

ACCUMULATION: NOT DETERMINED.

ECOTOXICITY: NOT DETERMINED.

OTHER ADVERSE EFFECTS: NOT DETERMINED.

- SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

- SECTION 14 TRANSPORT INFORMATION -

D.O.T. (U.S.):

PROPER SHIPPING NAME: NOT REGULATED.

HAZARD CLASS OR DIVISION: NOT REGULATED.

HAZARD LABEL: NOT REGULATED.

I.D. NUMBER: NOT REGULATED.

TDG (CANADA): NOT REGULATED.

IATA: NOT REGULATED.

ICAO: NOT REGULATED.

IMO: NOT REGULATED.

AUSTRALIAN CODE FOR THE TRANSPORT OF DANGEROUS GOODS: DANGEROUS GOODS CLASS AND SUBSIDIARY RISK: NOT DETERMINED.

- SECTION 15 REGULATORY INFORMATION -

FOOTNOTES FOR SECTION 2:

BJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 313. PEARS ON THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT 65) SUBSTANCES LIST.

(3) APPEARS ON THE MASSACHUSETTS SUBSTANCES LIST.

(4) APPEARS ON THE NEW JERSEY RIGHT-TO-KNOW HAZARDOUS SUBSTANCES LIST.

(5) APPEARS ON THE PENNSYLVANIA HAZARDOUS SUBSTANCES LIST.

(6) APPEARS ON THE CANADIAN WHMIS INGREDIENT DISCLOSURE LIST.

OSHA HAZARD STATUS: THIS PRODUCT IS CONSIDERED TO BE HAZARDOUS AS DEFINED BY THE U.S. OSHA HCS

EPA SARA SEC. 311/312 HAZARD CATEGORIES: IMMEDIATE (ACUTE) HEALTH HAZARD.

TOXIC SUBSTANCES CONTROL ACT (TSCA): ALL INCREDIENTS CONTAINED IN THIS PRODUCT ARE LISTED ON THE U.S. EPA TSCA CHEMICAL SUBSTANCE INVENTORY.

HMIS RATING:

HEALTH 1 FLAMMABILITY 1 REACTIVITY

NFPA RATING: HEALTH FLAMMABILITY REACTIVITY

WHMIS STATUS:

THIS PRODUCT IS CONSIDERED TO BE HAZARDOUS AS DEFINED BY CANADIAN WHMIS CONTROLLED PRODUCTS REGULATIONS.

WHMTS RATING: D1-B

WHMIS RISK PHRASES: HARMFUL BY INHALATION AND IF SWALLOWED. MAY CAUSE LUNG DAMAGE IF SWALLOWED. IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

WHMIS PRECAUTIONARY STATEMENTS:
KEEP OUT OF REACH OF CHILDREN, KEEP AWAY FROM FOOD AND DRINK, DO NOT
BREATH VAPOR OR SPRAY, AVOID CONTACT WITH SKIN AND EYES. IN CASE OF
CONTACT WITH EYES, RINSE IMMEDIATELY WITH FLENTY OF WATER AND SEEK
MEDICAL ADVICE. DO NOT EMPTY INTO DRAINS. WEAR SUITABLE PROTECTIVE
CLOTHING. IF SWALLOWED, DO NOT INDUCE VOMITING:
SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER, LABEL OR SAFETY
DATA SHEET

DOMESTIC SUBSTANCES LIST (DSL): ALL INCREDIENTS CONTAINED IN THIS PRODUCT ARE LISTED ON THE CANADIAN EPA (CEPA) DOMESTIC SUBSTANCES LIST (DSL).

EUROPEAN INVENTORY OF EXISTING CHEMICAL SUBSTANCES (EINECS): ALL INGREDIENTS CONTAINED IN THIS PRODUCT ARE LISTED ON THE EUROPEAN INVENTORY OF EXISTING CHEMICAL SUBSTANCES (EINECS)

CATEGORIES OF DANGER (LABELING INFORMATION): HARMFUL (Xn), IRRITANT (Xi)

RISK (R) PHRASES: HARMFUL BY INHALATION AND IF SWALLOWED (R20/22).

MAY CAUSE LING DAMAGE IF SWALLOWED (R65). IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN (R36/37/38).

SAFETY(S) PHRASES:
KEEP OUT OF REACH OF CHILDREN (S2)
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS (S13)
DO NOT BREATH VAPOR OR SPRAY (S23)
AVOID CONTACT WITH SKIN AND EYES (S24/25)
IN CASE OF COMMACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND
SEEK MEDICAL ADVICE (S26)
DO NOT EMPTY INTO DRAINS (S29)
WEAR SUITABLE PROTECTIVE CLOTHING (S36)
IF SWALLOWED, SEEK MEDICAL ADVICE AND SHOW THIS CONTAINER, LABEL OR SAFETY
DATA SHEET (S46)
IF SWALLOWED, DO NOT INDUCE VOMITING:
SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER, LABEL OR SAFETY
DATA SHEET (S62).

AUSTRALIA:

WORKSAFE AUSTRALIA STATUS: THIS PRODUCT IS CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA.

HAZCHEM CODE: NOT DETERMINED.

POISONS SCHEDULE NUMBER: NOT DETERMINED.

FURTHER REGULATORY INFORMATION REGARDING INDIVIDUAL INGREDIENTS, IF APPLICABLE, MAY BE FOUND IN SECTION 2.

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THE CANADIAN WHMIS CONTROLLED PRODUCTS REGILATIONS, THE BRITISH CHIP2 REGILATION 6, AND THE AUSTRALIAN NURCOHIS. THIS MEDIS CONTRAINS THE INFORMATION REQUIRED BY THE ABOVE REGULATIONS AND CONFORMS TO ANSI ZAOO.1-1993.

- SECTION 16 OTHER INFORMATION

MSDS PREPARED BY: DIRECTOR OF CHEMICAL SAFETY

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS ACCURATE AND RELIABLE TO THE BEST OF OUR KNOWLEDGE AND BELLEF. HOWEVER, IA-CO INDUSTRIES, INC. MAKES NO REPRESENTATIONS AS TO ITS COMPLETENESS OR ACCURACY. INFORMATION IS SUPPLIED ON CONDITION THAT PERSONS RECEIVING SUCH INFORMATION WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR PURPOSES PRIOR TO USE. IN NO EVENT WILL A-CO INDUSTRIES, INC. BE RESPONSIBLE FOR DAMPGES OF ANY NATURE WHATSOEVER RESULTING FROM THE USE OF OR RELIANCE UPON THE INFORMATION CONTAINED HEREIN.

This MSDS should be attached or kept with the respective product with which it is associated.

L SAFETY DATA SHEET - A1978

Associated Grainger Items

6Y761, 6Y762

DOW CORNING

DOW CORNING CORPORATION

MATERIAL SAFETY DATA SHEET

DOW CORNING(R) 111 VALVE LUBRICANT & SEALANT

-----1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY -----

DOW CORNING CORPORATION SOUTH SAGINAW ROAD

MIDLAND, MICHIGAN 48686

24 HOUR EMERGENCY TELEPHONE:

CUSTOMER SERVICE:

(517) 496-6000

PRODUCT DISPOSAL INFORMATION: (517) 496-6315

(800) 424-9300

MSDS NO: 01889834

REVISION DATE: 2000/01/17

GENERIC DESCRIPTION: SILICONE GREASE

PHYSICAL FORM: GREASE

COLOR: TRANSLUCENT WHITE

ODOR: ODORLESS

NFPA PROFILE:

HEALTH:

FLAMMABILITY:

INSTABILITY/REACTIVITY: 0

NOTE: NFPA = NATIONAL FIRE PROTECTION ASSOCIATION

-2. OSHA HAZARDOUS COMPONENTS -----

NONE PRESENT.

THIS IS NOT A HAZARDOUS MATERIAL AS DEFINED IN THE OSHA HAZARD COMMUNICATION STANDARD.

----3. EFFECTS OF OVEREXPOSURE -----

ACUTE EFFECTS:

EYE: DIRECT CONTACT MAY CAUSE TEMPORARY REDNESS AND DISCOMFORT.

SKIN: NO SIGNIFICANT IRRITATION EXPECTED FROM A SINGLE SHORT-TERM EXPOSURE.

INHALATION: NO SIGNIFICANT EFFECTS EXPECTED FROM A SINGLE SHORT-TERM

ORAL: LOW INGESTION HAZARD IN NORMAL USE.

PROLONGED/REPEATED EXPOSURE EFFECTS:

SKIN: NO KNOWN APPLICABLE INFORMATION.

INHALATION: NO KNOWN APPLICABLE INFORMATION.

ORAL: NO KNOWN APPLICABLE INFORMATION.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: NO KNOWN APPLICABLE INFORMATION.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NO KNOWN APPLICABLE INFORMATION.

THE ABOVE LISTED POTENTIAL EFFECTS OF OVEREXPOSURE ARE BASED ON ACTUAL DATA, RESULTS OF STUDIES PERFORMED UPON SIMILAR COMPOSITIONS, COMPONENT DATA AND/OR EXPERT REVIEW OF THE PRODUCT. PLEASE REFER TO SECTION 11 FOR THE DETAILED TOXICOLOGY INFORMATION.

----4. FIRST AID MEASURES -----

EYE: IMMEDIATELY FLUSH WITH WATER.

SKIN: NO FIRST AID SHOULD BE NEEDED.

INHALATION: NO FIRST AID SHOULD BE NEEDED.

ORAL: NO FIRST AID SHOULD BE NEEDED.

COMMENTS: TREAT SYMPTOMATICALLY.

-----5. FIRE FIGHTING MEASURES -----

FLASH POINT: > 214.0 DRG. F / > 101.1 DBG. C CLOSED CUP

AUTOIGNITION TEMPERATURE: NOT DETERMINED

FLAMMABILITY LIMITS IN AIR: NOT DETERMINED

EXTINGUISHING MEDIA.

ON LARGE FIRES USE DRY CHEMICAL, FOAM OR WATER SPRAY. ON SMALL FIRES USE CARBON DIOXIDE (CO2), DRY CHEMICAL OR WATER SPRAY. WATER CAN BE USED TO COOL FIRE EXPOSED CONTAINERS.

FIRE FIGHTING MEASURES:

SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN "NG LARGE FIRES INVOLVING CHEMICALS. DETERMINE THE NEED TO EVACUATE OR : THE AREA ACCORDING TO YOUR LOCAL EMERGENCY PLAN. USE WATER SPRAY TO KEEP FIRE EXPOSED CONTAINERS COOL.

UNUSUAL FIRE HAZARDS: NONE

HAZARDOUS DECOMPOSITION PRODUCTS:

THERMAL BREAKDOWN OF THIS PRODUCT DURING FIRE OR VERY HIGH HEAT CONDITIONS MAY EVOLVE THE FOLLOWING HAZARDOUS DECOMPOSITION PRODUCTS: SILICON DIOXIDE. CARBON OXIDES AND TRACES OF INCOMPLETELY BURNED CARBON COMPOUNDS.

FORMALDBHYDE.

-----6. ACCIDENTAL RELEASE MEASURES -----

CONTAINMENT/CLEAN UP:

DETERMINE WHETHER TO EVACUATE OR ISOLATE THE AREA ACCORDING TO YOUR LOCAL EMERGENCY PLAN. OBSERVE ALL PERSONAL PROTECTION EQUIPMENT RECOMMENDATIONS DESCRIBED IN SECTIONS 5 AND 8. FOR LARGE SPILLS, PROVIDE DIKING OR OTHER APPROPRIATE CONTAINMENT TO KEEP MATERIAL FROM SPREADING. IF DIKED MATERIAL CAN BE PUMPED, STORE RECOVERED MATERIAL IN APPROPRIATE CONTAINER. CLEAN UP REMAINING MATERIALS FROM SPILL WITH SUITABLE ABSORBENT. CLEAN AREA AS APPROPRIATE SINCE SOME SILICONE MATERIALS, EVEN IN SMALL QUANTITIES, MAY PRESENT A SLIP HAZARD. FINAL CLEANING MAY REQUIRE USE OF STEAM, SOLVENTS OR DETERGENTS. DISPOSE OF SATURATED ABSORBENT OR CLEANING MATERIALS

COPRIATELY, SINCE SPONTANEOUS HEATING MAY OCCUR. LOCAL, STATE, AND
L LAWS AND REGULATIONS MAY APPLY TO RELEASES AND DISPOSAL OF THIS
MATLENIAL, AS WELL AS THOSE MATERIALS AND ITEMS EMPLOYED IN THE CLEANUP OF
RELEASES. YOU WILL NEED TO DETERMINE WHICH FEDERAL, STATE AND LOCAL LAWS AND
REGULATIONS ARE APPLICABLE. SECTIONS 13 AND 15 OF THIS MSDS PROVIDE
INFORMATION REGARDING CERTAIN FEDERAL AND STATE REQUIREMENTS.

NOTE:

SEE SECTION 8 FOR PERSONAL PROTECTIVE EQUIPMENT FOR SPILLS. CALL DOW CORNING CORPORATION, (517) 496-5900, IF ADDITIONAL INFORMATION IS REQUIRED.

----- HANDLING AND STORAGE

USE WITH ADBQUATE VENTILATION. AVOID BYE CONTACT.

USE REASONABLE CARE AND STORE AWAY FROM OXIDIZING MATERIALS.

----8. EXPOSURE CONTROLS/PERSONAL PROTECTION -----

COMPONENT EXPOSURE LIMITS:

THERE ARE NO COMPONENTS WITH WORKPLACE EXPOSURE LIMITS.

ENGINEERING CONTROLS

CAL VENTILATION: NONE SHOULD BE NEEDED

AL VENTILATION: RECOMMENDED

PERSONAL PROTECTIVE EQUIPMENT FOR ROUTINE HANDLING:

EYES: USE PROPER PROTECTION - SAFETY GLASSES AS A MINIMUM.

SKIN: WASHING AT MEALTIME AND END OF SHIFT IS ADBOUATE.

SUITABLE GLOVES: NO SPECIAL PROTECTION NEEDED.

INHALATION: NO RESPIRATORY PROTECTION SHOULD BE NEEDED.

SUITABLE RESPIRATOR: NONE SHOULD BE NEEDED.

PERSONAL PROTECTIVE EQUIPMENT FOR SPILLS:

EYES: USE PROPER PROTECTION - SAFETY GLASSES AS A MINIMUM.

SKIN: WASHING AT MEALTIME AND END OF SHIFT IS ADEQUATE.

INHALATION/SUITABLE RESPIRATOR: NO RESPIRATORY PROTECTION SHOULD BE NEEDED.

PRECAUTIONARY MEASURES: AVOID BYE CONTACT. USE REASONABLE CARE.

COMMENTS: NONE

NOTE:

THESE PRECAUTIONS ARE FOR ROOM TEMPERATURE HANDLING. USE AT ELEVATED
TEMPERATURE, OR AEROSOL/SPRAY APPLICATIONS MAY REQUIRE ADDED PRECAUTIONS.

----9. PHYSICAL AND CHEMICAL PROPERTIES -----

PHYSICAL FORM: GREASE

COLOR: TRANSLUCENT WHITE

ODOR: ODORLESS

SPECIFIC GRAVITY @ 25 DEG. C: 1.1

VISCOSITY: NOT APPLICABLE.

FREEZING/MELTING POINT: NOT DETERMINED.

BOILING POINT: NOT DETERMINED.

VAPOR PRESSURE @ 25 DEG. C: NOT DETERMINED.

VAPOR DENSITY: NOT DETERMINED.

SOLUBILITY IN WATER: NOT DETERMINED.

ph: NOT DETERMINED.

VOLATILE CONTENT: NOT DETERMINED.

NOTE:

THE ABOVE INFORMATION IS NOT INTENDED FOR USE IN PREPARING PRODUCT SPECIFICATIONS. CONTACT DOW CORNING BEFORE WRITING SPECIFICATIONS.

-----10. STABILITY AND REACTIVITY -----

CHEMICAL STABILITY: STABLE.

HAZARDOUS POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

ONS TO

ONS TO AVOID: NONE.

MATERIALS TO AVOID: OXIDIZING MATERIAL CAN CAUSE A REACTION.

-----11. TOXICOLOGICAL INFORMATION -----

ACUTE TOXICOLOGY DATA FOR PRODUCT:

COMPLETE INFORMATION IS NOT YET AVAILABLE.

COMPONENT TOXICOLOGY INFORMATION:

COMPLETE INFORMATION IS NOT YET AVAILABLE.

SPECIAL HAZARD INFORMATION ON COMPONENTS:
NO KNOWN APPLICABLE INFORMATION.

-----12. ECOLOGICAL INFORMATION -----

ENVIRONMENTAL FATE AND DISTRIBUTION:
NO SPECIFIC INFORMATION IS AVAILABLE.

ENVIRONMENTAL EFFECTS:

NO SPECIFIC INFORMATION IS AVAILABLE.

NO SPECIFIC INFORMATION IS AVAILABLE.

BCOTOXICITY CLASSIFICATION CRITERIA:

HAZARD PARAMETERS (LC50 OR EC50)

HIGH

MEDIUM

UM LOW

> 100

ACUTE AQUATIC TOXICITY (MG/L)

=1 > 1 AND < =100

ACUTE TERRESTRIAL TOXICITY < =100 > 100 AND < =2000 >2000

THIS TABLE IS ADAPTED FROM "ENVIRONMENTAL TOXICOLOGY AND RISK ASSESSMENT", ASTM STP 1179, P.34, 1993.

THIS TABLE CAN BE USED TO CLASSIFY THE ECOTOXICITY OF THIS PRODUCT WHEN ECOTOXICITY DATA IS LISTED ABOVE. PLEASE READ THE OTHER INFORMATION PRESENTED IN THE SECTION CONCERNING THE OVERALL ECOLOGICAL SAFETY OF THIS MATERIAL.

-----13. DISPOSAL CONSIDERATIONS -----

RCRA HAZARD CLASS (40 CFR 261):

N A DECISION IS MADE TO DISCARD THIS MATERIAL, AS VED, IS IT CLASSIFIED AS A HAZARDOUS WASTE? NO

STATE OR LOCAL LAWS MAY IMPOSE ADDITIONAL REGULATORY REQUIREMENTS REGARDING DISPOSAL.

CALL DOW CORNING CORPORATE ENVIRONMENTAL MANAGEMENT

(517)496-6315, IF ADDITIONAL INFORMATION IS REQUIRED.

-----14. TRANSPORT INFORMATION -----

DOT ROAD SHIPMENT INFORMATION (49CFR 172.101): NOT SUBJECT TO DOT.

OCEAN SHIPMENT (IMDG): NOT SUBJECT TO IMDG CODE.

AIR SHIPMENT (ICAO): NOT SUBJECT TO ICAO REGULATIONS.

CALL DOW CORNING TRANSPORTATION:

(517)496-8577, IF ADDITIONAL INFORMATION IS REQUIRED.

-----15. REGULATORY INFORMATION -----

CONTENTS OF THIS MSDS COMPLY WITH THE OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200

TSCA STATUS:

ALL CHEMICAL SUBSTANCES IN THIS MATERIAL ARE INCLUDED ON OR EXEMPTED FROM LISTING ON THE TSCA INVENTORY OF CHEMICAL SUBSTANCES.

EPA SARA TITLE III CHEMICAL LISTINGS:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: NONE

SECTION 304 CERCLA HAZARDOUS SUBSTANCES: NONE

SECTION 312 HAZARD CLASS:

ACUTE: NO

CHRONIC: NO

FIRE: NO PRESSURE: NO

REACTIVE: NO

SECTION 313 TOXIC CHEMICALS:

NONE PRESENT OR NONE PRESENT IN REGULATED QUANTITIES.

SUPPLEMENTAL STATE COMPLIANCE INFORMATION:

CALIFORNIA:

WARNING:

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) LISTED BY THE STATE OF CALIFORNIA UNDER THE SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 (PROPOSITION 65) AS BEING KNOWN TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

NONE KNOWN.

MASSACHUSETTS:

CAS NUMBER WT % COMPONENT NAME
7631-86-9 7.0-13.0 SILICA, AMORPHOUS

NEW JERSEY:

CAS NUMBER WT &

COMPONENT NAME

63148-62-9 > 60.0 POLYDIMETHYLSILOXANE

7631-86-9 7.0-13.0 SILICA, AMORPHOUS FUMED

70131-67-8 7.0-13.0 DIMETHYL SILOXANE, HYDROXY-TERMINATED

.VANIA:

CAS	NUMBER	WT	ŧ

COMPONENT NAME

63148-62-9 > 60.0 POLYDIMETHYLSILOXANE

7631-86-9 7.0-13.0 SILICA

70131-67-8 7.0-13.0 DIMETHYL SILOXANB, HYDROXY-TERMINATED

-----16. OTHER INFORMATION -----

PREPARED BY: DOW CORNING CORPORATION

THESE DATA ARE OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATIONS. NO WARRANTY, BITHER EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.

(R) INDICATES REGISTERED TRADEMARK

### ITEM: 1WG50 - OIL COMPRESSOR

MSDS: A2431

PICK\_REQ: 1110736861

**MATERIAL SAFETY DATA SHEET (MSDS)** 

/#####################################	ESPECTIVE PRODUCT WITH WHICH IT IS ASSOCIATED.	
ociated Grainger Item: 1WG50 - OIL COMPRESSOR	EYE CONTACT:	
SPEEDAIRE (R*)	AS WITH MOST FOREIGN MATERIALS, IF EYE CONTACT SHOULD OCCUR, FLUSH EYES WITH PLENTY OF WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.	
MATERIAL SAFETY DATA SHEET	SKIN CONTACT: WASH EXPOSED SKIN WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND	
FORM BN-81, 1ST EDITION	WASH BEFORE REUSE.	
DATE: OCTOBER 2001	INHALATION: REMOVE EXPOSED PERSON TO FRESH AIR IF ADVERSE EFFECTS ARE OBSERVED.	
H.M.I.S. HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0	INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION.	
THESE RATINGS SHOULD BE USED ONLY AS A PART OF A FULLY IMPLEMENTED H.M.I.S.	SECTION VII FIRE FIGHTING MEASURES	
PROGRAM.	FLASH POINT: 257 DBG. C 500 DBG. F	
SECTION I PRODUCT IDENTIFICATION	FLAMABLE LIMITS:	
TRADE NAME AND SYNONYMS: SPEEDAIRE RECIP LUBRICANT MINERAL OIL	UPPER: NE LOWER: NE	
PART NUMBERS: 1WG50	AUTO IGNITION (FIRE POINT):	
MANUFACTURER'S NAME: SPEEDAIRE ADDRESS: 1301 NORTH BUCLID AVENUE	> 680 DEG. F EXTINGUISHING MEDIA:	
PRINGRON,—IE—61.356  HEALITH EMERGENCY PHONE NUMBER: (217) 222-5400 SAFETY DEPARTMENT	USE WATER FOG, FOAM, DRY CHEMICAL OF CO2. DO NOT USE A DIRECT STREAM OF WATER. MATERIAL WILL FLOAT ON WATER SURFACE AND CAN RE-IGNITE ON THE SURFACE OF THE WATER.	
PRODUCT IDENTIFICATION: HYDROCARBON RECIPROCATING COMPRESSOR OIL	SPECIAL FIRE FIGHTING PROCEDURES: DO NOT ENTER CONFINED FIRE-SPACE WITHOUT FULL BUNKER GEAR, INCLUDING POSITIVE PRESSURE SCHA. COOL FIRE EXPOSED CONTAINERS WITH WATER.	
CHEMICAL NAMES AND SYNONYMS: PETROLEUM HYDROCARBON	UNUSUAL FIRE AND EXPLOSION HAZARDS:	
SECTION II TYPICAL CHEMICAL AND PHYSICAL PROPERTIES		
APPEARANCE: AMBER TO LIGHT LIQUID	SECTION VILI REACTIVITY DATA	
% VOL BY VOL: NIL	STABLE STABLE	
POTUING POINT: > 300 DEG. F	CONDITIONS AND MATERIAL TO AVOID: AVOID HEAT, OPEN FLAMES AND STRONG OXIDIZERS.	
TE IN WATER: NEGLIGIBLY	HAZARDOUS DECC:FOSTTION PRODUCTS:	
ING POINT: ND	THERMAL DECOMPOSITION PRODUCTS ARE HIGHLY DEPENDENT ON THE COMBUSTION PROCESS. BY-PRODUCTS OF COMBUSTION MAY INCLUDE: OXIDES OF CARBON, BOROM,	
V DENSITY: > AIR	NITROGEN, SULFUR, PHOSPHORUS, ZINC, CALCIUM, AND/OR MAGNESIUM.	
SPREIFIC GRAVITY: 0.88 (APPROX.)	HAZARDOUS POLYMERIZATION:	
EVAPORATION RATE: NA	WILL NOT OCCUR.	
** VAPOR DENSITY OF AIR IS = 1 **	——————————————————————————————————————	
*	PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:	
** EVAPORATION RATE OF BUTYL ACETATE IS = 1 **	REMOVE ALL SOURCES OF IGNITION. SMALL SPILLS MAY BE ABSORBED WITH INERT MATERIAL AS SAND, CLAY, VERMICULITE, ETC. LARGE SPILLS SHOULD BE DIKED TO	
SECTION III COMPOSITION/INFORMATION OF INGREDIENTS	PREVENT ENTRY TO SEWERS OR WATERWAYS. LARGE SPILLS MAY BE PICKED UP WITH A VACUUM TRUCK, SHOVELS, OR OTHER APPROPRIATE MEANS AND PLACED IN SALVAGE	
COMPOSITION CAS # % PEL	DRUMS OR OTHER SUITABLE CONTAINERS.	
P: INDUSTRIAL OIL MIXTURE 100 5 MG/CLM	SECTION X SPECIAL PROTECTION INFORMATION —	
1: SOLV. REF. HVY. PARAFFIN OIL 64742-54-7 5 MG/CUM	EYE PROTECTION:	
2: LT. NAPTH. HYDROTREATED DIST. 64742-53-6 5 M3/CLM	CHEMICAL GOGGLES.	
3: HVY. NAPTH. HYDROTREATED DIST. 64742-67-7 5 MG/CUM	SKIN PROTECTION: LONG SLEEVE SHIRT IS RECOMMENDED. NITRILE GLOVES.	
4: DEASPHALTED RESIDIUM 64742-95-3 5 MG/CUM	RESPIRATORY PROTECTION: IF THE RECOMMENDED EXPOSURE LIMIT IS EXCEEDED, USE RESPIRATOR WITH ORGANIC	
5: SOL. REF. SAT. PARAFFIN DIST. 64742-65-0 5 MG/CUM (AS MIST)	VAPOR & DUST/MIST CARTRIDGES.	
LEAST 0 SECTION IV HMIS HAZARD RATING	VENTILATION: SUFFICIENT MECHANICAL (GENERAL) AND/OR LOCAL EXHAUST VENTILATION TO MAINTAIN EXPOSURE BELOW PEL.	
SLIGHT 1 MODERATE 2	SECTION KI SPECIAL PRECAUTIONS	
HIGH 3 EXTREME 4	HANDLING:	
HEALTH: 1 FIRE: 1	KEEP CONTAINERS CLOSED WHEN NOT IN USB. EMPTY RESIDUE AND MAY EXHIBIT HAZARDS OF PRODUCT.	
REACTIVITY: 0 OTHER: 0 PERSONAL PROTECTION: B	STORAGE: STORE IN A COOL, DRY, WELL-VENTILATED AREA.	
SECTION V HAZARDS IDENTIFICATION		
HEALTH: NO	INCESTION: LD 50 IN RATS > 5000 MG/KG; PRACTICALLY NON-TOXIC.	
IÇ HEALTH: NO	INHALATION:	
TOTAL TVITY: NO	OIL MIST MAY CAUSE RESPIRATORY IRRITATION.	
FIRE: NO	EYE IRRITATION: MILD EYE IRRITANT.	
** SEE SECTION XII FOR COMPLETE HEALTH HAZARD INFORMATION **	SKIN IRRITATION: NOT EXPECTED TO BE A PRIMARY SKIN IRRITANT.	

- SECTION XIII ECOLOGICAL INFORMATION -FRESHWATER FISH TOXICITY: TEST PROGRAM IS IN PROGRESS. WATER INVERTEBRATES TOXICITY: TEST PROGRAM IS IN PROGRESS. MATER FISH TOXICITY: SA IWATER INVERTEBRATES TOXICITY: NE BACTERIAL TOXICITY: TEST PROGRAM IS IN PROGRESS. MISCELLANEOUS TOXICITY: NΕ MISCELLANDOUS ENVIRONMENTAL FATE: TEST PROGRAM FOR BIODECRADATION IS IN PROGRESS. - SECTION XIV DISPOSAL CONSIDERATIONS -DISPOSE OF IN COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS. - SECTION XV TRANSPORTATION INFORMATION -DOT CLASSIFICATION: NON-HAZARDOUS.

PROPER SHIPPING NAME:

NA

- SECTION XVI REGULATORY INFORMATION -

THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY OF CHEMICAL

- SECTION XVII OTHER INFORMATION -

ALWAYS WASH HANDS AND FACE BEFORE EATING, DRINKING, OR SMOKING.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELLEVED TO BE CORRECT. HOMEVER, SPENDAIRE MAKES NO WARRANTY EXPRESSED OR IMPLIED RECARDING THE ACCURACY OF THESE DATA OR THE RESILITS TO BE OFTAINED FROM THE USE THEREOF. SPENDAIRE ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

NOTE: NOT A CONTROLLED PRODUCT UNDER CANADIAN WHMIS HAZARD CRITERIA; AS SPECIFIED IN CONTROLLED PRODUCT REGULATION.

PREPARED BY THE PRODUCT SPECIALIST, AFTERMARKET OCTOBER 2001